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U.S. SCHOOLS OF PUBLIC HEALTH: APPLICATIONS, STUDENTS, AND GRADUATES
1978-79 THROUGH 1986-87

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INTRODUCTION

The Association of Schools of Public Health (ASPH) operates a Data Center that collects and compiles aggregate educational statistics from each school of public health, including data on applications, total enrollment, and graduates. This report presents trend data on these three topics for the 9-year period 1978-79 through 1986-87. The data was obtained by ASPH, and it was analyzed under a purchase order from the Bureau of Health Professions. ASPH collects the statistics in October of each year for the previous academic year. Data on applications and total enrollment is for the Fall semester of each year, and data on graduates covers the entire academic year.

It is emphasized that ASPH collects data on applications rather than individual applicants to schools of public health. ASPH does not have a centralized application process to arrive at an unduplicated count of applicants at the national level. There is currently no means of determining the average number of applications submitted per applicant to various schools. Nor is there a means of determining whether there have been differences in this overall average over time, or among various types of applicants, such as by gender, citizenship, and racial/ethnic category. Therefore, application data as presented in this report should be used with caution.

Today there are 24 accredited schools of public health in the United States and Puerto Rico located at eight private and 16 public universities. The schools have a combined enrollment of over 10,000 students, and a faculty in excess of 1,800. Graduate education in schools of public health covers a wide range of topics and is organized around the following nine major areas:

- Biostatistics
- Epidemiology
- Health services administration
- Public health practice and program management
- Health education/behavioral sciences
- Environmental sciences
- Occupational safety and health
- Nutrition
- Biomedical and laboratory sciences

Graduates of schools of public health work primarily in the field of health promotion and disease prevention. They represent the basic resource pool from which federal, state and local health and environmental agencies draw their manpower needs. Graduates also work and teach in university settings. Industry relies heavily on the schools to train employees involved in industrial hygiene, occupational safety and health, environmental toxicology, and other areas.

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OVERVIEW

The 24 schools of public health are listed in Table I, along with the number of students enrolled and the number of graduates in academic year 1986-87. The basic purpose of this report is to present data on trends in applications, student enrollment, and graduates at these schools over the preceding 9-year period.

Applications

In academic year 1978-79, there were 13,000 applications reported for 20 of the then 21 schools of public health. Applications peaked during that year, and then declined rather rapidly. By 1982-83, applications for the 23 schools had decreased by about 23 percent from the peak to 10,021. Since 1982-83, applications have remained fairly steady at about 10,000 per year (Table 1-A). In 1985-86 the total number of applicants increased to 10,881.

There have been some significant changes in the type of persons applying to public health schools over the 9-year period. The percentage of applications made by women increased from 52% in 1978-79 to 60% in 1984-85. Since 1985-86, however, the proportion to females has declined relative to the proportion of males. In 1986-87, 57% of the applicants were female and 43% were male. The number of applications made by foreign students grew from 1,606 to 2,504 during the period, reaching 24 percent of the total by 1986-87 (Table 1-B).

Data on applications by racial/ethnic category has been collected since academic year 1980-81. In that year, 23 percent of the applications made by U.S. citizens were from minorities, including 10 percent from Blacks and 6 percent from Hispanics (Table 1-C). Over the years those percentages have remained fairly constant, fluctuating somewhat from year to year. The actual number of minority applicants decreased from 1,896 in 1980-81 to 1,536 in 1985-86. However, in 1986-87 the number of minority applicants increased by 17%.

As shown in Table 1-D, over half of the applications to schools of public health in 1986-87 were concentrated in three areas of specialization -- health services administration (29 percent), epidemiology (14 percent), and environmental sciences (12 percent). Since 1978-79, there have been decreases in the proportion of applications in health services administration and nutrition, and increases in epidemiology and health education/behavioral sciences.

The number of applications in relation to the number of first-year students enrolled in individual schools of public health in 1986-87 are presented in Table 1-E. By individual school, the number of applications per first-year student varied from 1.3 to 3.8; the term "application" is synonymous with "applicant" when such data is presented for individual schools. However, the national average for all schools of public health of 2.8 applications per first-year student enrolled overstates the ratio of applicants to first-year students, obviously, because some students apply to more than one school.

In 1986-87, there were 3,928 first-year students enrolled in the U.S. schools of public health. First-year enrollment constituted 39% of total enrollment in the schools in 1986-87.

Total Enrollment

In academic year 1986-87, the total enrollment in schools of public health was 10,104, a 31 percent increase over the 1978-79 level of 7,722 (Table 2-A). Total enrollment increased rather steadily through 1981-82, but then leveled off at about 9,000 students per year until 1985-86. In 1985-86, there was a 6 percent increase in total enrollment and in 1986-87 there was an additional 6% increase.

There have been a number of significant changes in the characteristics of public health students over the years. The proportion of enrolled women increased each year between 1978-79 and 1986-87, from 52 to 60 percent.

The number of foreign students has more than doubled, from 707 in 1978-79 to 1,545 in 1986-87, and their proportion of the total student population has increased from 10 to 15 percent during the period (Table 2-B).

The number and proportion of minority students has remained fairly steady since 1979-80 (Table 2-C). As a proportion of total U.S. students enrolled in schools of public health their representation has been at a level of 16-18 percent.

In terms of areas of specialization (Table 2-D), the only really clear trends involve a decrease in the proportion of students in nutrition and increases in epidemiology and health education/behavioral sciences.

In academic year 1978-79, there were 21 schools of public health in operation in 17 states and Puerto Rico. By 1986-87, there were 24 schools with the addition of the University of Florida in 1985. Schools of public health are concentrated in California, with four, and in Massachusetts, with three; no other state has more than one public health school. Table 2-E shows total enrollment in individual schools of public health for the period 1978-79 through 1986-87. The 24 schools are located in 18 states and Puerto Rico.

Graduates

There were 3,191 graduates from the 24 schools of public health in 1986-87. The proportion of female graduates increased rather steadily during the period from 51 to 60 percent (Table 3-A), and the proportion of foreign graduates showed a large increase from 10 to 18 percent (Table 3-B). The percentage of minority graduates from schools of public health declined somewhat over the years, from 17 percent in 1978-79 to 15 percent in 1986-87 (Table 3-C). Table 3-D shows the variations in the number and percent distribution of graduates by area of specialization; in 1986-87, health administration led in graduates, followed by epidemiology and environmental sciences. Table 3-E gives the number and percent of female graduates for individual schools of public health; the percentage of females ranges from 34 to 75 percent among the schools.

Expenditures

Expenditures are the total monies spent by the school of public health during the fiscal year. Expenditures do not represent the amount budgeted for the schools nor total monies available under grants and contracts.

Expenditures for the 24 schools totaled $366.5 million for FY 1986-87, a 14% increase over FY 1985-86 (see Tables 4-A and 4-B). Of total funds expended, nearly half (48%) were from institutional sources, 39% were from federal sources and 13% were from other sources. In FY 1974-75, institutional sources accounted for only 36% of expenditures, federal sources 55% and other sources 9%. Over the past thirteen years expenditures have tripled, and there has been a shift toward more reliance on institutional funds and less reliance on federal monies (Table 4-C). As will be seen in Tables 4-A, and 4-B, expenditure data is coded by school.

Table I

Number of Students and Graduates of Individual U.S. Schools of Public Health, by State: Academic Year 1986-87

	Number of students		
State and school	Total	First Year	Number of Graduates
Total	10,104	3,928	3,191
ALABAMA			
University of Alabama	277	105	103
CALIFORNIA			
University of California-Berkeley	474	192	214
University of California-Los Angeles	617	238	177
Loma Linda University	504	79	97
San Diego State University	207	74	50
CONNECTICUT			
Yale University	278	109	91
FLORIDA			
University of South Florida	275	44	28
HAWAII			
University of Hawaii	264	113	115
ILLINOIS			
University of Illinois	286	53	92
LOUISIANA			
Tulane University	417	153	151
MARYLAND			
Johns Hopkins University	866	232	288
MASSACHUSETTS			
Boston University	282	187	99
Harvard University	469	273	226
University of Massachusetts	171	51	37
MICHIGAN			
University of Michigan	651	273	235
MINNESOTA			
University of Minnesota	318	138	212
NEW YORK			
Columbia University	501	251	165
NORTH CAROLINA			
University of North Carolina	765	295	288
OKLAHOMA			
University of Oklahoma	322	97	67
PENNSYLVANIA			
University of Pittsburgh	581	205	112
SOUTH CAROLINA			
University of South Carolina	309	249	57
TEXAS			
University of Texas	490	187	133
WASHINGTON			
University of Washington	426	157	93
PUERTO RICO			
University of Puerto Rico	354	173	61

1. TRENDS IN APPLICATIONS

Table 1-A

Number and Percent Distribution of Applications to U.S. Schools of Public Health, by Sex: Academic Years 1978-79 Through 1986-87

Year 1/	All applications	Male	Female
		Number of applications 2/	
1978-79	13,000	5,880	6,288
1980-81	11,898	5,330	6,547
1981-82	11,078	4,683	6,383
1982-83	10,021	4,221	5,658
1983-84	9,998	4,005	5,636
1984-85	10,119	3,828	5,698
1985-86	10,115	3,926	5,680
1986-87	10,881	4,523	5,914
		Percent distribution 2/	
1978-79	100.0	48.3	51.7
1980-81	100.0	44.9	55.1
1981-82	100.0	42.3	57.7
1982-83	100.0	42.7	57.3
1983-84	100.0	41.5	58.5
1984-85	100.0	40.2	59.8
1985-86	100.0	40.9	59.1
1986-87	100.0	43.3	56.7

1/ No application data by sex were collected in 1979-80.

2/ Total number includes applications for which sex was not reported. Percent distribution is based on only those applications for which this variable is known.

Table 1-B

Number and Percent Distribution of Applications to U.S. Schools of Public Health, by Citizenship: Academic Years 1978-79 Through 1986-87

Year 1/	All applications	U.S. citizenship	Foreign citizenship
		Number of applications 2/	
1978-79	13,000	10,577	1,606
1980-81	11,898	10,070	1,828
1981-82	11,078	9,327	1,743
1982-83	10,021	7,942	1,714
1983-84	9,998	7,339	1,827
1984-85	10,119	7,586	1,810
1985-86	10,115	7,451	1,944
1986-87	10,881	7,989	2,504
		Percent distribution 2/	
1978-79	100.0	86.8	13.2
1980-81	100.0	84.6	15.4
1981-82	100.0	84.3	15.7
1982-83	100.0	82.2	17.8
1983-84	100.0	80.1	19.9
1984-85	100.0	80.7	19.3
1985-86	100.0	79.3	20.7
1986-87	100.0	76.1	23.9

1/ No application data by citizenship were collected in 1979-80. The University of Puerto Rico did not report in 1978-79, the University of Minnesota in 1980-81 and 1981-82, and San Diego State University in 1982-83.

2/ Total number includes applications for which citizenship was not reported. Percent distribution is based on only those applications for which citizenship is known.

Table 1-C

Number and Percent Distribution of Applications to U.S. Schools of Public Health by U.S. Citizens, by Racial/Ethnic Category: Academic Years 1980-81 through 1986-87

			Racial/ethnic category			
Year	Total applications by U.S. citizens	All minority applications	Asian	Black	Hispanic	American Indian
			Number of applications by U.S. citizens 1/			
1980-81	10,070	1,896	436	824	523	113
1981-82	9,327	1,863	481	760	534	88
1982-83	7,942	1,505	350	624	471	60
1983-84	7,339	1,426	327	573	472	54
1984-85	7,586	1,648	503	595	494	56
1985-86	7,451	1,536	444	550	487	55
1986-87	7,989	1,792	527	607	572	86
			Percent distribution 1/			
1980-81	100.0	22.6	5.2	9.8	6.3	1.3
1981-82	100.0	22.8	5.9	9.3	6.5	1.1
1982-83	100.0	24.0	5.6	9.9	7.5	1.0
1983-84	100.0	22.4	5.1	9.0	7.4	0.9
1984-85	100.0	24.4	7.5	8.8	7.3	0.8
1985-86	100.0	23.1	6.7	8.3	7.3	0.8
1986-87	100.0	24.5	7.2	8.3	7.8	1.2

1/ Total number includes applications for which racial/ethnic status was not reported. Percent distribution is based on only those applications for which racial/ethnic status is known.

Table 1-D

Number and Percent Distribution of Applications to U.S. Schools of Public Health, by Area of Specialization: Academic Years 1978-79, 1983-84 and 1986-87

Area of specialization 1/	1978-79 Number	1978-79 Percent distribution	1983-84 Number	1983-84 Percent distribution	1986-87 Number	1986-87 Percent distribution
Total 2/	13,000	100.0	9,998	100.0	10,881	100.0
Biostatistics	464	4.0	444	4.6	487	4.7
Epidemiology	1,422	12.3	1,386	14.4	1,494.5	14.4
Health services administration	4,337	37.8	2,903	30.0	2,954.5	28.5
Public health practice and program management	839	7.3	786.5	8.1	866.5	8.4
Health education/ behavioral sciences	743	6.5	834.5	8.6	1,156	11.1
Environmental science	1,488	13.0	1,233	12.8	1,199.5	11.6
Occupational safety and health	225	2.0	118.5	1.2	95	0.9
Nutrition	621	5.4	391	4.1	332.5	3.2
Biomedical and laboratory sciences	251	2.2	319	3.3	292	2.8
Other areas	1,096	9.5	937.5	9.7	1,037.5	10.0
Nonspecialized (General studies)	N/A 3/	N/A 3/	309	3.2	463	4.5

1/ Applicants with dual specializations counted as .5 in each area beginning academic year 1981-82.

2/ Total number includes applications for which area of specialization is unknown and applications for nondegree training; these applications are not included in the percent distribution.

3/ Applicants in general studies included under "other areas" in 1978-79.

Table 1-E

Number of Applications in Relation to Number of First-Year Students in Individual U.S. Schools of Public Health, by State: Academic Year 1986-87

State and school	Number of applications	Number of first-year students	Number of applications per first-year student
Total	10,881	3,928	2.8
ALABAMA			
University of Alabama	138	105	1.3
CALIFORNIA			
University of Cal.-Berk.	712	192	3.7
University of Cal.-L.A.	848	238	3.6
Loma Linda University	221	79	2.8
San Diego State University	187	74	2.5
CONNECTICUT			
Yale University	341	109	3.1
FLORIDA			
University of South Florida	58	44	1.3
HAWAII			
University of Hawaii	230	113	2.0
ILLINOIS			
University of Illinois	132	53	2.5
LOUISIANA			
Tulane University	337	153	2.2
MARYLAND			
Johns Hopkins University	1,207	232	5.2
MASSACHUSETTS			
Boston University	322	187	1.7
Harvard University	744	273	2.7
University of Massachusetts	192	51	3.8
MICHIGAN			
University of Michigan	796	273	2.9
MINNESOTA			
University of Minnesota	319	138	2.3
NEW YORK			
Columbia University	609	251	2.4
NORTH CAROLINA			
University of North Carolina	985	295	3.3
OKLAHOMA			
University of Oklahoma	193	97	2.0
PENNSYLVANIA			
University of Pittsburgh	496	205	2.4
SOUTH CAROLINA			
University of South Carolina	494	249	2.0
TEXAS			
University of Texas	433	187	2.3
WASHINGTON			
University of Washington	472	157	3.0
PUERTO RICO			
University of Puerto Rico	415	173	2.4

2. TRENDS IN TOTAL ENROLLMENT

Table 2-A

Total Number and Percent Distribution of Students in U.S. Schools of Public Health, by Sex: Academic Years 1978-79 Through 1986-87

Year 1/	Total enrollment	Male	Female
	Total number of students 2/		
1978-79	7,722	3,367	3,704
1979-80	8,215	3,397	3,949
1980-81	8,486	3,023	3,728
1981-82	9,047	3,865	4,800
1982-83	8,896	3,794	5,101
1983-84	8,937	3,690	5,152
1984-85	8,957	3,627	5,329
1985-86	9,494	3,769	5,725
1986-87	10,104	4,071	6,029
	Percent distribution 2/		
1978-79	100.0	47.6	52.4
1979-80	100.0	46.2	53.8
1980-81	100.0	44.8	55.2
1981-82	100.0	44.6	55.4
1982-83	100.0	42.7	57.3
1983-84	100.0	41.7	58.3
1984-85	100.0	40.5	59.5
1985-86	100.0	39.7	60.3
1986-87	100.0	40.3	59.7

1/ The University of Puerto Rico only reported total enrollment in 1978-79 and 1979-80.

2/ Total number includes students whose sex was not reported. Percent distribution is based on only those students for whom this variable is known.

Table 2-B

Total Number and Percent Distribution of Students in U.S. Schools of Public Health, by Citizenship: Academic Years 1978-79 Through 1986-87

Year	Total enrollment	U.S. citizenship	Foreign citizenship
		Total number of students 1/	
1978-79	7,722	6,340	707
1979-80	8,215	6,532	782
1980-81	8,486	6,047	730
1981-82	9,047	7,366	1,299
1982-83	8,896	7,615	1,190
1983-84	8,937	7,617	1,212
1984-85	8,957	7,641	1,180
1985-86	9,494	7,942	1,410
1986-87	10,104	8,558	1,545
		Percent distribution 1/	
1978-79	100.0	90.0	10.0
1979-80	100.0	89.3	10.7
1980-81	100.0	89.2	10.8
1981-82	100.0	85.0	15.0
1982-83	100.0	86.5	13.5
1983-84	100.0	86.3	13.7
1984-85	100.0	86.6	13.4
1985-86	100.0	84.9	15.1
1986-87	100.0	84.7	15.3

1/ Total number includes students whose citizenship was not reported. Percent distribution is based on only those students for whom citizenship is known.

Table 2-C

Number and Percent Distribution of Students to U.S. Schools of Public Health by Racial/Ethnic Category: Academic Years 1979-80 through 1986-87

			Racial/ethnic category			
Year 1/	Total enrollment of U.S. citizens	All minority students	Asian	Black	Hispanic	American Indian
			Total number of U.S. citizens enrolled 2/			
1979-80	6,532	1,064	408	415	173	68
1980-81	6,047	1,102	393	379	242	88
1981-82	7,366	1,064	335	376	271	82
1982-83	7,615	1,200	368	403	359	70
1983-84	7,617	1,117	313	357	388	59
1984-85	7,641	1,116	302	368	392	54
1985-86	7,942	1,252	304	433	452	63
1986-87	8,558	1,454	378	484	524	68
			Percent distribution 2/			
1979-80	100.0	16.4	6.3	6.4	2.7	1.0
1980-81	100.0	18.4	6.6	6.3	4.0	1.5
1981-82	100.0	16.4	5.1	5.8	4.2	1.3
1982-83	100.0	17.1	5.2	5.8	5.1	1.0
1983-84	100.0	16.2	4.5	5.2	5.6	0.9
1984-85	100.0	15.9	4.3	5.2	5.6	0.8
1985-86	100.0	17.3	4.2	6.0	6.2	0.9
1986-87	100.0	18.2	4.7	6.1	6.6	0.9

1/ The University of Puerto Rico only reported total enrollment in 1979-80.

2/ Total number includes students whose racial/ethnic category was not reported. Percent distribution is based on only those students for whom racial/ethnic category is known.

Table 2-D

Total Number and Percent Distribution of Students in U.S. Schools of Public Health, by Area of Specialization: Academic Years 1978-79, 1983-84, and 1986-87

Area of specialization 1/	1978-79 Total enrollment	1978-79 Percent distribution	1983-84 Total enrollment	1983-84 Percent distribution	1986-87 Total enrollment	1986-87 Percent distrib
Total 2/	7,722	100.0	8,937	100.0	10,104	100.0
Biostatistics	491	7.1	489.5	6.0	509	5.5
Epidemiology	880	12.8	1,171.5	14.3	1,406.5	15.2
Health services administration	1,809	26.3	2,187.5	26.6	2,500	27.0
Public health practice and program management	744	10.8	593	7.2	710	7.7
Health education/ behavioral sciences	489	7.1	730.5	8.9	999.5	10.8
Environmental sciences	821	11.9	1,233	15.0	1,146.5	12.4
Occupational safety and health	269	3.9	136.5	1.7	211.5	2.3
Nutrition	386	5.6	276	3.4	292.5	3.2
Biomedical and laboratory sciences	256	3.7	258	3.1	247	2.7
Other areas	731	10.7	781.5	9.5	779.5	8.4
Nonspecialized (General studies)	N/A 3/	N/A 3/	362	4.4	446	4.8

1/ Students with dual specializations counted as .5 in each area beginning academic year 1981-82.

2/ Total includes students whose area of specialization is unknown, and nondegree students; these students are not included in the percent distribution.

3/ Students in general studies included under "other areas" in 1978-79.

Table 2-E

Total Enrollment in Individual U.S. Schools of Public Health, by State: Academic Years 1978-79 Through 1986-87

State and school	Total number of students								
	1978	1979	1980	1981	1982	1983	1984	1985	1986
Total	7,722	8,215	8,486	9,047	8,896	8,937	8,957	9,494	10,104
ALABAMA									
University of Alabama	90	129	147	165	126	135	138	248	277
CALIFORNIA									
University of Cal.-Berk	415	466	469	497	435	484	465	482	474
University of Cal.-L.A.	528	584	607	580	530	589	543	569	617
Loma Linda University 1/	323	258	271	761	722	539	392	466	504
San Diego State University	—	—	—	—	100	130	180	182	207
CONNECTICUT									
Yale University	239	270	277	287	291	272	297	274	278
FLORIDA									
University of South Florida	—	—	—	—	—	—	—	—	275
HAWAII									
University of Hawaii	336	350	352	338	312	260	215	237	264
ILLINOIS									
University of Illinois	154	144	163	216	287	263	296	330	286
LOUISIANA									
Tulane University	366	405	344	389	382	427	415	432	417
MARYLAND									
Johns Hopkins University	653	735	891	834	856	851	806	855	866
MASSACHUSETTS									
Boston University	—	—	—	280	270	282	254	335	282
Harvard University	473	455	435	403	421	378	426	421	469
University of Massachusetts	118	167	138	139	135	126	152	138	171
MICHIGAN									
University of Michigan	704	657	742	742	645	643	634	620	651
MINNESOTA									
University of Minnesota	508	509	502	448	374	369	393	405	318
NEW YORK									
Columbia University	399	413	487	431	538	480	494	506	501
NORTH CAROLINA									
University of North Carolina	660	671	670	600	637	685	739	728	765
OKLAHOMA									
University of Oklahoma	193	248	232	225	188	237	246	279	322
PENNSYLVANIA									
University of Pittsburgh	465	483	454	500	454	496	522	552	581
SOUTH CAROLINA									
University of South Carolina	117	154	154	175	192	214	274	308	309
TEXAS									
University of Texas	555	601	603	576	504	494	503	468	490
WASHINGTON									
University of Washington	290	380	404	321	294	359	335	382	426
PUERTO RICO									
University of Puerto Rico	136	136	144	140	203	224	238	277	354

1/ Off-campus students included in 1981 and subsequent years.

3. TRENDS IN GRADUATES

Table 3-A

Number and Percent Distribution of Graduates of U.S. Schools of Public Health, by Sex: Academic Years 1978-79 through 1986-87

Year 1/	All graduates	Male	Female
	Number of graduates 2/		
1978-79	2,917	1,431	1,486
1979-80	3,326	1,576	1,750
1980-81	3,168	1,479	1,689
1981-82	3,196	1,434	1,762
1982-83	3,492	1,535	1,957
1983-84	3,299	1,477	1,820
1984-85	3,047	1,253	1,794
1985-86	3,268	1,358	1,909
1986-87	3,191	1,292	1,899
	Percent distribution 2/		
1978-79	100.0	49.1	50.9
1979-80	100.0	47.4	52.6
1980-81	100.0	46.7	53.3
1981-82	100.0	44.9	55.1
1982-83	100.0	44.0	56.0
1983-84	100.0	44.8	55.2
1984-85	100.0	41.1	58.9
1985-86	100.0	41.6	58.4
1986-87	100.0	40.5	59.5

1/ Columbia University did not report in 1980-81. Data for 1978-79 through 1980-81 include bachelor degrees.

2/ Total number includes graduates whose sex was not reported. Percent distribution is based on only those students for whom this variable is known.

Table 3-B

Number and Percent Distribution of Graduates of U.S. Schools of Public Health, by Citizenship: Academic Years 1978-79 through 1986-87

Year	All graduates	U.S. citizenship	Foreign citizenship
	Number of graduates 1/		
1978-79	2,917	2,623	294
1979-80	3,326	2,923	403
1980-81	3,168	2,762	406
1981-82	3,196	2,720	476
1982-83	3,492	2,969	523
1983-84	3,299	2,652	597
1984-85	3,047	2,536	485
1985-86	3,268	2,703	553
1986-87	3,191	2,629	562
	Percent distribution 1/		
1978-79	100.0	89.9	10.1
1979-80	100.0	87.9	12.1
1980-81	100.0	87.2	12.8
1981-82	100.0	85.1	14.9
1982-83	100.0	85.0	15.0
1983-84	100.0	81.6	18.4
1984-85	100.0	84.0	16.0
1985-86	100.0	83.0	17.0
1986-87	100.0	82.4	17.6

1/ Includes graduates whose citizenship was not reported. Percent distribution is based on only those graduates for whom citizenship is known.

Table 3-C

Number and Percent Distribution of U.S. Graduates to U.S. Schools of Public Health by Racial/Ethnic Category: Academic Years 1978-79 through 1986-87

			Racial/ethnic category			
Year	All U.S. graduates	All minority graduates	Asian	Black	Hispanic	American Indian
		Number of U.S. graduates 1/				
1978-79	2,623	444	142	164	110	28
1979-80	2,923	452	113	182	132	25
1980-81	2,762	455	149	163	119	24
1981-82	2,720	383	112	143	104	24
1982-83	2,969	439	150	166	96	27
1983-84	2,652	397	112	150	110	25
1984-85	2,536	371	125	140	88	18
1985-86	2,703	377	112	150	95	20
1986-87	2,629	382	106	153	109	14
		Percent distribution 1/				
1978-79	100.0	17.0	5.4	6.3	4.2	1.1
1979-80	100.0	15.6	3.9	6.3	4.5	0.9
1980-81	100.0	17.4	5.7	6.2	4.6	0.9
1981-82	100.0	14.9	4.4	5.6	4.0	0.9
1982-83	100.0	14.9	5.1	5.6	3.3	0.9
1983-84	100.0	15.4	4.3	5.8	4.3	1.0
1984-85	100.0	14.9	5.0	5.6	3.6	0.7
1985-86	100.0	14.4	4.3	5.7	3.6	0.8
1986-87	100.0	14.9	4.1	6.0	4.3	0.5

1/ All U.S. graduates include some whose racial/ethnic category was not reported. Percent distribution is based on only those graduates for whom racial/ethnic category is known.

Table 3-D

Total Number and Percent Distribution of Graduates in U.S. Schools of Public Health, by Area of Specialization: Academic Years 1978-79, 1983-84, and 1986-87

	1978-79		1983-84		1986-87	
Area of specialization 1/	Number of graduates	Percent distribution	Number of graduates	Percent distribution	Number of graduates	Percent distr
Total	2,917	100.0	3,299	100.0	3,191	100.0
Biostatistics	135	4.6	132.5	4.0	129	4.0
Epidemiology	354	12.1	423	12.8	440	13.8
Health services administration	760	26.1	906	27.4	876.5	27.5
Public health practice and program management	298	10.2	286	8.7	304	9.5
Health education/ behavioral sciences	176	6.1	230	7.0	255	8.0
Environmental sciences	444	15.2	428.5	13.0	347	10.9
Occupational safety and health	22	0.8	60	1.8	88	2.8
Nutrition	164	5.6	120.5	3.7	110.5	3.4
Biomedical and laboratory sciences	88	3.0	90	2.7	79	2.5
Other areas	476	16.3	402.5	12.2	340	10.6
Nonspecialized (Graduate studies)	N/A /2	N/A /2	220	6.7	222	7.0

1/ Graduates with dual specializations counted as .5 in each area beginning academic yea 1981-82.

2/ Graduates in general studies included under "other areas" in 1978-79.

Table 3-E

Number of Male and Female Graduates and Percent Female in Individual U.S. Schools of Public Health, by State: Academic Year 1986-87

State and school	All graduates	Male	Female	Percent female
Total	3,191	1,292	1,899	59.5
ALABAMA				
University of Alabama	103	51	52	50.5
CALIFORNIA				
University of Cal.-Berk.	214	66	148	69.2
University of Cal.-L.A.	177	60	117	66.1
Loma Linda University	97	36	61	62.9
San Diego State University	50	21	29	58.0
CONNECTICUT				
Yale University	91	27	64	70.3
FLORIDA				
University of South Florida	28	7	21	75.0
HAWAII				
University of Hawaii	115	37	78	67.8
ILLINOIS				
University of Illinois	92	30	62	67.4
LOUISIANA				
Tulane University	151	99	52	34.4
MARYLAND				
Johns Hopkins University	288	125	163	56.6
MASSACHUSETTS				
Boston University	99	31	68	68.7
Harvard University	226	126	100	44.2
University of Massachusetts	37	11	26	70.3
MICHIGAN				
University of Michigan	235	99	136	57.9
MINNESOTA				
University of Minnesota	212	83	129	60.8
NEW YORK				
Columbia University	165	52	113	68.5
NORTH CAROLINA				
University of North Carolina	288	110	178	61.8
OKLAHOMA				
University of Oklahoma	67	24	43	64.2
PENNSYLVANIA				
University of Pittsburgh	112	41	71	63.4
SOUTH CAROLINA				
University of South Carolina	57	26	31	54.4
TEXAS				
University of Texas	133	64	69	51.9
WASHINGTON				
University of Washington	93	46	47	50.5
PUERTO RICO				
University of Puerto Rico	61	20	41	67.2

4. EXPENDITURES

TABLE 4-A
U.S. SCHOOLS OF PUBLIC HEALTH
EXPENDITURES 1986-87

UNIVERSITY FUNDS

	SCHOOL	SALARY	FRINGE	TOTAL SALARY AND FRINGE	STUDENT AID	NON-PERSONNEL EXPENSES	INDIRECT EXPENSES	TOTAL UNIVERSITY
	25	9177545	1440678	10618223	0	2295064	6518637	19431924
	26	8749695	2048945	10798640	3823356	3887889	3498917	22008802
	27	6274446	1290654	7565100	589706	580627	5766356	14501789
	28	5143891	1138152	6282043	0	538368	1643017	8463428
	29	1803019	481879	2284898	231896	615149	2254822	5386765
	30	3089900	360800	3450700	0	254900	1104200	4809800
	31	4860151	1045123	5905274	0	863079	1990077	8758430
	32	7510489	1543152	9053641	838124	4239132	4540555	18671452
	33	3096633	672686	3769319	24098	780158	5214492	9788067
	34	1315084	486581	1801665	0	159908	541003	2502576
	35	2020196	408672	2428868	71114	808868	1254520	4563370
	36	1153422	215284	1368706	0	104524	473068	1946298
	37	1489766	362238	1852004	42864	533259	1006648	3434775
	38	1313869	0	1313869	0	49048	0	1362917
	39	3190136	793100	3983236	56413	966815	4032549	9039013
	40	1640814	426612	2067426	0	137908	930342	3135676
	41	5309827	1221260	6531087	0	860181	3573410	10964678
	42	2939013	643644	3582657	33500	1934498	1454559	7005214
	43	1696412	380028	2076440	140494	509014	1308157	4034105
	44	1497652	257875	1755527	121396	195541	214908	2287372
	45	2093596	441510	2535106	151050	668604	583840	3938600
	46	1718239	230244	1948483	73141	397812	2787626	5207062
	47	951796	255294	1207090	0	24738	0	1231828
	48	1377660	270695	1648355	64179	536419	56622	2305575
Total		79413251	16415106	95828357	6261331	21941503	50748325	174779516

TABLE 4-B
U.S. SCHOOLS OF PUBLIC HEALTH
EXPENDITURES 1986-87

GRANTS & CONTRACTS/TOTAL EXPENDITURES

	U.S. GOVERNMENT				OTHER SOURCES					
SCHOOL	RESEARCH GRANTS	TRAINING GRANTS	STUDENT AID	SUB-TOTAL	RESEARCH GRANTS	TRAINING GRANTS	STUDENT AID	SUB-TOTAL	TOTAL GRANTS	TOTAL EXPEND.
25	6955021	2147159	870076	9972256	1413797	743658	30044	2187499	12159755	31591679
26	36296938	1176409	3578982	41052329	10007009	2201617	1576481	13785107	54837436	76846238
27	3225745	604720	899902	4730367	2589778	716612	335321	3641711	8372078	22873867
28	1807655	420555	479304	2707514	1490379	70881	103096	1664356	4371870	12835298
29	2318448	712620	808693	3839761	396528	146462	16713	559703	4399464	9786229
30	683300	688300	144200	1515800	503800	121200	38000	663000	2178800	6988600
31	2914898	791154	0	3706052	470028	83483	0	553511	4259563	13017993
32	15094975	1280893	2425261	18801129	7029249	224944	512847	7767040	26568169	45239621
33	13653723	1105937	273709	15033369	1985464	424069	2115	2411648	17445017	27233084
34	303574	764548	140252	1208374	0	0	0	0	1208374	3710950
35	4120256[1]	320112	0	4440368	284772[1]	98002	0	382774	4823142	9386512
36	208843	150562	66851	426256	9483	28138	0	37621	463877	2410175
37	505655	195777	16038	717470	514252	35484	0	549736	1267206	4701981
38	79010	59638	0	138648	2762372	0	162768	2925140	3063788	4426705
39	6549457	830708	47192	7427357	2438573	397330	8088	2843991	10271348	19310361
40	1727504	330318	149409	2207231	1545	142774	0	144319	2351550	5487226
41	2278618	176090	171952	2626660	1399761	24009	10147	1433917	4060577	15025255
42	5012012	792656	767151	6571819	1647886	0	54491	1702377	8274196	15279410
43	5259798	663802	93184	6016784	1045886	0	32000	1077886	7094670	11128775
44	1280863	0	181492	1462355	0	0	0	29718[2]	1492073	3779445
45	1710973	453025	223821	2387819	864646	395690	7690	1268026	3655845	7594445
46	2568831	852444	123727	3545002	2716576	315134	1844	3033554	6578556	11785618
47	1550947	0	78286	1629233	502641	0	0	502641	2131874	3363702
48	137833	67523	0	205356	187395	8375	0	195770	401126	2706701
Total	116244877	14584950	11539482	142369309	40261820	6177862	2891645	49361045[3]	191730354[3]	366509870[3]

---

[1] Includes multipurpose funds.

[2] Foundation monies, undesignated use.

[3] Other sources sub-total, total grants, and total expenditures columns include 29718 in miscellaneous monies from school 44.

TABLE 4-C
U.S. SCHOOLS OF PUBLIC HEALTH
EXPENDITURES

FY	INSTITUTIONAL SOURCES		FEDERAL SOURCES		OTHER SOURCES		TOTAL EXPENDITURES
1974-75	$43,613,028	35.7%	$67,130,975	54.9%	$11,521,854	9.4%	$122,265,857
1976-77	54,456,054	38.0	73,281,169	51.1	15,554,536	10.9	143,291,759
1977-78	63,821,421	39.8	79,581,169	49.6	16,969,924	10.6	160,372,514
1979-80	82,227,292	40.6	95,920,799	47.4	24,330,800	12.0	202,478,891
1980-81	91,696,770	41.6	105,123,883	47.7	23,580,608	10.7	220,401,261
1981-82	109,925,409	45.9	101,734,232	42.4	28,091,885	11.7	239,751,526
1982-83[1]	112,532,050	48.9	90,662,549	39.4	27,080,347	11.8	230,274,946
1983-84[1]	112,476,638	48.9	84,707,805	36.8	32,730,286	14.2	229,914,729
1984-85	148,485,900	51.8	105,897,277	36.9	32,253,444	11.3	286,636,621
1985-86	161,011,821	50.1	121,036,930	37.7	39,042,085	12.2	321,090,836
1986-87	174,779,516	47.7	142,369,309	38.8	49,361,045	13.5	366,509,870

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[1] One school did not report. In 1982-83 a small school was not included, and total expenditures were not greatly affected. However, in 1983-84 one of the largest schools was not included, and expenditures are significantly underreported.

U.S. SCHOOLS OF PUBLIC HEALTH
DATA REPORT ON APPLICANTS, STUDENTS, GRADUATES AND EXPENDITURES 1987-88
WITH TRENDS ANALYSIS FOR 1974-75 THROUGH 1987-88

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July 1989

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U.S. SCHOOLS OF PUBLIC HEALTH

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PREFACE

Schools of public health have been educating professionals in the techniques of health preservation and disease prevention and control since the first decades of the twentieth century. Some schools of public health had their beginnings in university schools of medicine; others were conceived from the outset as autonomous units within their parent institutions. Today there are twenty-four accredited schools of public health in the United States, at eight private and sixteen public universities.

Unlike other health professional schools which emphasize a specific clinical discipline (for example medicine, nursing or dentistry), schools of public health educate a wide range of professionals, from biostatisticians and epidemiologists to health administrators, community health educators, and specialists in areas such as environmental and occupational health, mental health, population studies, international health and the behavioral and social sciences.

The schools have a combined enrollment of over 10,000 students and a faculty in excess of 2,000. Graduate education in each of the twenty-four schools is organized around nine major specialties:

- Biostatistics
- Epidemiology
- Health Services Administration
- Public Health Practice and Program Management
- Health Education/Behavioral Science
- Environmental Sciences
- Occupational Safety and Health
- Nutrition
- Biomedical and Laboratory Sciences

Graduates of the schools of public health work primarily in the fields of health promotion and disease prevention. They represent the basic resource pool from which federal, state and local health and environmental agencies draw their manpower needs. Graduates also work and teach in university settings. Industry relies heavily on the schools to train employees involved in industrial hygiene, occupational safety and health, environmental toxicology, and other areas.

The Association of Schools of Public Health (ASPH) operates a Data Center that collects and compiles aggregate data on applicants, students, graduates, faculty and expenditures in each school of public health. The data collected serves the schools and various federal, state and local agencies and private institutions in planning and implementing their respective public health training, research and service activities.

NOTES ON DATA

1. Data collection -- ASPH has collected data on students, graduates, applicants, and expenditures since the 1974-75 academic year. From 1974-75 through 1980-81, data on students was collected from individual questionnaires, while the remainder of the data was collected in aggregate form from the schools. Since the 1981-82 academic year, all data has been collected in aggregate form. Data forms covering the previous academic year are distributed to the schools in October of each year. In addition, there is a limited amount of data from the 1960s that was collected by Dr. James Troupin for the American Public Health Association (APHA). The Troupin data is used in the trends analysis where applicable.

2. Time period -- Data on students and applicants is for the fall semester. Data on graduates covers the entire academic year, and data on expenditures covers the entire fiscal year.

3. Degrees -- The following degree categories are used:

MPH - Master of Public Health
MS - Master of Science
MSPH - Master of Science in Public Health
MHA/MHSA - Master's degrees in health services administration including Master of Health Administration (MHA), Master of Health Services Administration (MHSA), and Master of Hospital Administration (MHA).
OTHER.MAST - All other master's degrees including Master of Arts (MA), Master of Occupational Health (MOH), Master of Health Science (MHS), Master of Science in Environmental Engineering (MSEE), Master of Science Hygiene (MSHyg), Master of Public Health Education (MPHE), Master of Arts in Teaching (MAT).
DrPH - Doctor of Public Health
ScD - Doctor of Science
PhD - Doctor of Philosophy
OTHER.DOC - All other doctorates including Doctor of Health Science (DHSc), Doctor of Education (EdD) and Doctor of the Environment (DEnv).
JOINT.DEG - All joint degrees, which combine a school of public health degree with an outside degree, such as the following:

MD - Doctor of Medicine
DDS/DMD - Doctor of Dental Surgery/Dental Medicine
DVM - Doctor of Veterinary Medicine
OD - Doctor of Optometry
JD - Doctor of Laws
PhD - Doctor of Philosophy

MA - Master of Arts
MS - Master of Science
MN/MSN - Master of Nursing
MBA - Master of Business Administration
MCRP - Master of City & Regional Planning
MIA - Master of International Affairs
MPA - Master of Public Administration
MPP - Master of Public Policy
MPPM - Master of Public and Private Management
MSUP - Master of Science in Urban Planning
MSW - Master of Social Work

NONDEGREE - All students not enrolled in a formal degree program. Includes special students, postdoctoral fellows and persons enrolled in certificate or credential programs.
UNKNOWN - Degree program is unknown.
BACHELOR - Data on undergraduates was collected from 1974-75 through 1980-81. Undergraduates are included in data for those years.

4. Areas of Specialization -- The following categories are used:

BIOSTAT - Biostatistics, biometry.
EPID - Epidemiology. Where epidemiology and biostatistics programs are combined, data is recorded under epidemiology.
HSA - Health services administration, hospital administration, health policy, health planning, health management, health services organization, health law, evaluation research.
PHP&PM - Public health practice and program management, maternal and child health, gerontology, dental public health, optometric public health, public health nursing, public health social work, veterinary public health, mental health, community health sciences, community health practice.
H.EDUC/BS - Health education, public health education, health education administration, behavioral sciences, socio-medical sciences, health promotion, health behavior.
ENV.SC - Environmental science, environmental health, toxicology, radiological health, environmental chemistry, water quality, environmental health planning. Where environmental health and occupational safety and health programs are combined, data is recorded under environmental health.
OS&H - Occupational safety and health, industrial hygiene, occupational medicine, aerospace medicine.
NUTR - Nutrition, public health nutrition.
BIOMED - Biomedical and laboratory sciences, microbiology, parasitology, immunology, cancer biology, biochemistry, biophysics, pathobiology.

OTHER - All other areas of specialization including international health, population/family planning, tropical public health, urban health, disease control, genetics, clinical research analysis, forensic science. Until 1982 behavioral sciences was classified under OTHER.
NONSPEC - Nonspecialized, general public health studies.
NONDEGREE - All nondegree students and applicants are classified together regardless of area of study.
UNKNOWN - Area of specialization is undecided or unknown.

The classification system for areas of specialization was developed by ASPH in 1978 and has been used since the 1979-80 academic year. Under the ASPH data collection system, the schools report their students (applicants, graduates, etc.) by department or program area and ASPH staff regroup the data into the thirteen categories described above. Categorization is not always precise and there is some variance each year. In addition, a number of schools have departments or program areas that include two or more of the ASPH categories, such as Population and Family Health. Finally, departments within the schools are reorganized from time to time with the result that two or more areas that were once separate in the ASPH data system are later reported as a combined area. For these reasons, the data on area of specialization should be viewed with caution.

A number of schools allow dual specializations. Applicants, students and graduates with dual specializations are recorded as ".5" in each area.

5. Status -- The following categories are used for students:

F-T - An on-campus student registered for nine or more credit hours per quarter or semester.
P-T - An on-campus student registered for less than nine credit hours per quarter or semester.
OTHER - A student enrolled in a non-traditional program. This includes extended degree and other non-traditional programs offered by a school of public health at the main campus or at other sites.
UNKNOWN - Status is unknown.

I. APPLICANTS

A. Fall 1987 Applicants

Any discussion of data on applicants must be preceded by the warning that ASPH collects data on applications rather than individuals. ASPH does not have a centralized application process, and there is currently no means of determining the average number of applications submitted per applicant. Nor is there a means of determining whether there have been differences in this average over time or among population groups. Therefore, applicant data should be viewed with caution.

There were 11,134 applications reported for Fall 1987, a 2.3% increase over the previous year. About 59% of the applicants were female, over 25% were foreign, and 25% of the U.S. applicants were members of minority groups. Over half of the applicants were concentrated in three areas--health services administration (26%), epidemiology (17%), and "other" areas (12%).

Of the total applications, 62.0% were accepted, about the same proportion as that for Fall 1986 applicants (62.5%). Acceptance rates were similar for males and females, lower for foreign applicants (51%) than for U.S. applicants (64%), and lower for members of minority groups (47-60%) than for whites (68%).

U.S. SCHOOLS OF PUBLIC HEALTH
SUMMARY CHARACTERISTICS OF APPLICANTS
FALL 1987

SEX & CITIZENSHIP

MALES	4112	41.2 %	U.S.	7473	74.7 %
FEMALES	5874	58.8	FOREIGN	2525	25.3
UNKNOWN	1148	---	UNKNOWN	1136	---
TOTAL	11134	100.0 %	TOTAL	11134	100.0 %

U.S. MALES	2600	34.8 %	FOR. MALES	1509	60.2 %
U.S. FEMALES	4868	65.2	FOR. FEMALES	999	39.8
UNKNOWN	5	---	UNKNOWN	17	---
TOTAL	7473	100.0 %	TOTAL	2525	100.0 %

RACE/ETHNICITY (U.S. CITIZEN)	MALE	FEMALES	UNKNOWN	TOTAL	
ASIAN	186	321	0	507	7.1 %
BLACK	212	399	1	612	8.6
HISPANIC					
PUERTO RICO	88	192	0	280	3.9
MAINLAND	114	178	0	292	4.1
AMERIND	25	64	0	89	1.2
(TOTAL MIN.)	(625)	(1154)	(1)	(1780)	(25.0)
WHITE	1846	3499	3	5348	75.0
UNKNOWN	129	215	1	345	---
TOTAL	2600	4868	5	7473	100.0 %

AREA OF SPECIALIZATION

BIOSTAT	589.0	5.6 %
EPID	1754.5	16.7
HSA	2716.0	25.8
PHP&PM	748.0	7.1
H.EDUC/BS	1047.5	10.0
ENV.SC	1137.5	10.8
OS&H	194.0	1.8
NUTR	321.5	3.1
BIOMED	256.0	2.4
OTHER	1263.0	12.0
NONSPEC	498.0	4.7
NONDEGREE	553.0	---
UNKNOWN	56.0	---
TOTAL	11134.0	100.0 %

TABLE 1-1
U.S. SCHOOLS OF PUBLIC HEALTH
APPLICANTS BY SCHOOL, SEX & CITIZENSHIP
FALL 1987

SCHOOL	MALE	FEMALE	UNKNOWN	TOTAL
ALA	120.0	128.0	.0	248.0
BOSTON	87.0	232.0	.0	319.0
CAL-BERK	215.0	566.0	.0	781.0
CAL-UCLA	303.0	492.0	.0	795.0
COLUMBIA	.0	.0	522.0	522.0
HARVARD	345.0	328.0	.0	673.0
HAWAII	92.0	149.0	.0	241.0
ILL	61.0	123.0	3.0	187.0
JHU	692.0	696.0	.0	1388.0
L.LINDA	88.0	101.0	.0	189.0
MASS	107.0	144.0	.0	251.0
MICH	270.0	412.0	200.0	882.0
MINN	126.0	206.0	18.0	350.0
No.CAR	402.0	600.0	.0	1002.0
OKLA	65.0	99.0	.0	164.0
PITT	174.0	305.0	.0	479.0
PR	190.0	255.0	.0	445.0
S.DIEGO	69.0	156.0	1.0	226.0
So.CAR	117.0	133.0	.0	250.0
So.FLA	44.0	70.0	.0	114.0
TEXAS	172.0	235.0	.0	407.0
TULANE	9.0	4.0	404.0	417.0
WASH	225.0	260.0	.0	485.0
YALE	139.0	180.0	.0	319.0
Total	4112.0	5874.0	1148.0	11134.0

SCHOOL	U.S.	FOREIGN	UNKNOWN	TOTAL
ALA	177.0	71.0	.0	248.0
BOSTON	278.0	41.0	.0	319.0
CAL-BERK	677.0	104.0	.0	781.0
CAL-UCLA	548.0	247.0	.0	795.0
COLUMBIA	.0	.0	522.0	522.0
HARVARD	506.0	167.0	.0	673.0
HAWAII	158.0	83.0	.0	241.0
ILL	131.0	48.0	8.0	187.0
JHU	846.0	542.0	.0	1388.0
L.LINDA	123.0	66.0	.0	189.0
MASS	180.0	71.0	.0	251.0
MICH	549.0	133.0	200.0	882.0
MINN	291.0	57.0	2.0	350.0
No.CAR	738.0	264.0	.0	1002.0
OKLA	148.0	16.0	.0	164.0
PITT	379.0	100.0	.0	479.0
PR	280.0	165.0	.0	445.0
S.DIEGO	211.0	15.0	.0	226.0
So.CAR	198.0	52.0	.0	250.0
So.FLA	105.0	9.0	.0	114.0
TEXAS	310.0	97.0	.0	407.0
TULANE	.0	13.0	404.0	417.0
WASH	392.0	93.0	.0	485.0
YALE	248.0	71.0	.0	319.0
Total	7473.0	2525.0	1136.0	11134.0

TABLE 1-2
U.S. SCHOOLS OF PUBLIC HEALTH
U.S. APPLICANTS BY SCHOOL & RACE/ETHNICITY
FALL 1987

SCHOOL	ASIAN	BLACK	HISPANIC	AMERIND	TOTAL MINORITY
ALA	5.0	34.0	2.0	1.0	42.0
BOSTON	9.0	11.0	7.0	.0	27.0
CAL-BERK	72.0	49.0	45.0	18.0	184.0
CAL-UCLA	51.0	67.0	59.0	3.0	180.0
COLUMBIA	.0	.0	.0	.0	.0
HARVARD	45.0	34.0	15.0	1.0	95.0
HAWAII	43.0	2.0	4.0	11.0	60.0
ILL	10.0	17.0	3.0	.0	30.0
JHU	68.0	77.0	38.0	2.0	185.0
L.LINDA	17.0	18.0	7.0	5.0	47.0
MASS	.0	2.0	.0	.0	2.0
MICH	24.0	59.0	14.0	1.0	98.0
MINN	3.0	7.0	.0	1.0	11.0
No.CAR	31.0	58.0	12.0	12.0	113.0
OKLA	12.0	16.0	2.0	21.0	51.0
PITT	24.0	33.0	9.0	.0	66.0
PR	.0	.0	280.0	.0	280.0
S.DIEGO	16.0	9.0	14.0	1.0	40.0
So.CAR	3.0	36.0	1.0	2.0	42.0
So.FLA	5.0	9.0	9.0	.0	23.0
TEXAS	31.0	45.0	30.0	.0	106.0
TULANE	.0	.0	.0	.0	.0
WASH	22.0	9.0	7.0	10.0	48.0
YALE	16.0	20.0	14.0	.0	50.0
Total	507.0	612.0	572.0	89.0	1780.0

SCHOOL	WHITE	UNKNOWN	TOTAL
ALA	132.0	3.0	177.0
BOSTON	180.0	71.0	278.0
CAL-BERK	493.0	.0	677.0
CAL-UCLA	345.0	23.0	548.0
COLUMBIA	.0	.0	.0
HARVARD	358.0	53.0	506.0
HAWAII	94.0	4.0	158.0
ILL	100.0	1.0	131.0
JHU	659.0	2.0	846.0
L.LINDA	76.0	.0	123.0
MASS	38.0	140.0	180.0
MICH	432.0	19.0	549.0
MINN	263.0	17.0	291.0
No.CAR	625.0	.0	738.0
OKLA	97.0	.0	148.0
PITT	313.0	.0	379.0
PR	.0	.0	280.0
S.DIEGO	161.0	10.0	211.0
So.CAR	155.0	1.0	198.0
So.FLA	81.0	1.0	105.0
TEXAS	204.0	.0	310.0
TULANE	.0	.0	.0
WASH	344.0	.0	392.0
YALE	198.0	.0	248.0
Total	5348.0	345.0	7473.0

TABLE 1-3
U.S. SCHOOLS OF PUBLIC HEALTH
APPLICANTS BY AREA, SEX & CITIZENSHIP
FALL 1987

AREA	MALE	FEMALE	UNKNOWN	TOTAL
BIOSTAT	245.0	249.0	95.0	589.0
EPID	782.5	853.0	119.0	1754.5
HSA	927.5	1569.5	219.0	2716.0
PHP&PM	185.0	530.0	33.0	748.0
H.EDUC/BS	226.0	771.5	50.0	1047.5
ENV.SC	616.0	422.5	99.0	1137.5
OS&H	105.0	78.0	11.0	194.0
NUTR	50.0	237.5	34.0	321.5
BIOMED	119.0	129.0	8.0	256.0
OTHER	363.0	612.0	288.0	1263.0
NONSPEC	259.0	177.0	62.0	498.0
NONDEGREE	217.0	224.0	112.0	553.0
UNKNOWN	17.0	21.0	18.0	56.0
Total	4112.0	5874.0	1148.0	11134.0

AREA	U.S.	FOREIGN	UNKNOWN	TOTAL
BIOSTAT	273.0	225.0	91.0	589.0
EPID	1113.0	530.5	111.0	1754.5
HSA	2132.0	369.0	215.0	2716.0
PHP&PM	547.5	162.5	38.0	748.0
H.EDUC/BS	844.0	153.5	50.0	1047.5
ENV.SC	793.0	246.5	98.0	1137.5
OS&H	155.0	28.0	11.0	194.0
NUTR	207.5	80.0	34.0	321.5
BIOMED	159.0	89.0	8.0	256.0
OTHER	622.0	353.0	288.0	1263.0
NONSPEC	236.0	200.0	62.0	498.0
NONDEGREE	362.0	79.0	112.0	553.0
UNKNOWN	29.0	9.0	18.0	56.0
Total	7473.0	2525.0	1136.0	11134.0

AREA	U.S. MALES	U.S. FEMALES	FOR. MALES	FOR. FEMALES
BIOSTAT	126.0	147.0	119.0	102.0
EPID	421.5	691.5	361.0	160.5
HSA	691.5	1437.5	235.0	132.0
PHP&PM	107.0	440.5	77.0	85.5
H.EDUC/BS	155.0	688.0	71.0	82.5
ENV.SC	446.5	345.5	168.5	76.0
OS&H	88.0	67.0	17.0	11.0
NUTR	27.0	180.5	23.0	57.0
BIOMED	65.0	94.0	54.0	35.0
OTHER	168.5	453.5	194.5	158.5
NONSPEC	130.0	106.0	129.0	71.0
NONDEGREE	165.0	197.0	52.0	27.0
UNKNOWN	9.0	20.0	8.0	1.0
Total	2600.0	4868.0	1509.0	999.0

TABLE 1-4
U.S. SCHOOLS OF PUBLIC HEALTH
U.S. APPLICANTS BY AREA & RACE/ETHNICITY
FALL 1987

			HISPANIC	
AREA	ASIAN	BLACK	PUERTO RICO	MAINLAND
BIOSTAT	36.0	12.0	3.0	9.0
EPID	109.5	86.0	57.0	48.0
HSA	112.5	223.5	40.0	76.0
PHP&PM	33.0	54.0	34.0	27.0
H.EDUC/BS	44.5	65.0	26.0	38.0
ENV.SC	43.5	35.0	44.0	13.0
OS&H	8.0	6.0	0.0	7.0
NUTR	13.5	16.0	16.0	11.0
BIOMED	32.0	12.0	0.0	3.0
OTHER	44.5	49.5	8.0	32.0
NONSPEC	12.0	20.0	52.0	16.0
NONDEGREE	16.0	33.0	0.0	11.0
UNKNOWN	2.0	0.0	0.0	1.0
TOTAL	507.0	612.0	280.0	292.0

AREA	AMERIND	WHITE	UNKNOWN	TOTAL
BIOSTAT	1.0	200.0	12.0	273.0
EPID	1.0	767.0	44.5	1113.0
HSA	48.0	1536.0	96.0	2132.0
PHP&PM	3.0	385.5	11.0	547.5
H.EDUC/BS	21.0	610.5	39.0	844.0
ENV.SC	2.0	625.5	30.0	793.0
OS&H	0.0	128.0	6.0	155.0
NUTR	2.0	143.0	6.0	207.5
BIOMED	0.0	110.0	2.0	159.0
OTHER	3.0	476.5	8.5	622.0
NONSPEC	0.0	128.0	8.0	236.0
NONDEGREE	8.0	216.0	78.0	362.0
UNKNOWN	0.0	22.0	4.0	29.0
TOTAL	89.0	5348.0	345.0	7473.0

TABLE 1-5
U.S. SCHOOLS OF PUBLIC HEALTH
APPLICANTS BY SCHOOL AND AREA
FALL 1987

SCHOOL	BIOSTAT	EPID	HSA	PHP&PM	H.EDUC/BS	ENV.SC	OS&H	NUTR	BIOMED	OTHER	NONSPEC	NONDEGREE	UNKNOWN	TOTAL
ALA	1.0	58.0	16.0	14.0	13.0	12.0	14.0	5.0		47.0	18.0	50.0		248
BOSTON		55.0	117.0		51.5	24.5					1.0	70.0		319
CAL-BERK	43.0	111.0	189.0	62.0	128.0	64.0		41.0	52.0	71.0	20.0			781
CAL-UCLA	61.0	114.0	205.0		126.0	71.0		72.0		144.0		2.0		795
COLUMBIA	24.0	47.0	112.0	9.0	12.0	29.0				107.0	52.0	112.0	18.0	522
HARVARD	49.0	54.0	183.0	36.0	27.0	79.0		16.0	45.0	55.0	83.0	46.0		673
HAWAII	11.0	24.0	52.0	32.0	36.0	31.0		17.0		36.0		2.0		241
ILL		53.0	47.0	61.0		26.0								187
JHU	48.0	322.0	233.0	107.0	61.0	124.0			61.0	323.0		109.0		1388
L.LINDA	3.0	15.0	20.0	14.0	70.0	12.0		21.0		34.0				189
MASS	11.0	66.0	73.0		56.0	28.0		8.0					9.0	251
MICH	65.0	125.5	277.0	22.0	74.0	104.0	68.0	26.5		91.0			29.0	882
MINN	16.0	66.0	126.0	36.0	36.0	58.0		12.0						350
No.CAR	99.0	136.0	217.0	120.0	142.0	178.0		67.0	43.0					1002
OKLA	6.0	23.0	90.0		21.0	24.0								164
PITT	31.0	87.0	113.0	66.0		47.0	22.0		31.0	56.0		26.0		479
PR	3.0	64.0	40.0	35.0	26.0	44.0		16.0		9.0	208.0			445
S.DIEGO		47.0	61.0	31.0	53.0		34.0							226
So.CAR	6.0	47.0	78.0		71.0	29.0					19.0			250
So.FLA		15.0	38.0	13.0	8.0	14.0	5.0				21.0			114
TEXAS	17.0	16.0	61.0	55.0	9.0	30.0	36.0			114.0	44.0	25.0		407
TULANE	20.0	39.0	75.0	24.0	27.0	24.0		20.0	8.0	157.0	10.0	13.0		417
WASH	64.0	69.0	134.0	11.0		60.0	15.0		16.0	19.0		97.0		485
YALE	11.0	101.0	159.0			25.0					22.0	1.0		319
TOTAL	589.0	1754.5	2716.0	748.0	1047.5	1137.5	194.0	321.5	256.0	1263.0	498.0	553.0	56.0	11134.0

TABLE 1-6
U.S. SCHOOLS OF PUBLIC HEALTH
APPLICANTS/ACCEPTANCES/ENROLLMENTS BY SCHOOL
FALL 1987

	APPLICATIONS			NEW ENROLLMENTS		
	No. Made	No. Accepted	% Accepted	No.	As % of Acceptances	As % of Applications
ALA	248	218	87.9 %	162	74.3 %	65.3 %
BOSTON	319	287	90.0	171	59.6	53.6
CAL-BERK	781	352	45.1	240	68.2	30.7
CAL-UCLA	795	444	55.8	227	51.1	28.6
COLUMBIA	522	403	77.2	249	61.8	47.7
HARVARD	673	487	72.4	265	54.4	39.4
HAWAII	241	161	66.8	87	54.0	36.1
ILL	187	75	40.1	27	36.0	14.4
JHU	1388	764	55.0	402	52.6	29.0
L.LINDA	189	109	57.7	68	62.4	36.0
MASS	251	130	51.8	38	29.2	15.1
MICH	882	599	67.9	283	47.2	32.1
MINN	350	203	58.0	132	65.0	37.7
No.CAR	1002	582	58.1	297	51.0	29.6
OKLA	164	138	84.1	81	58.7	49.4
PITT	479	256	53.4	186	72.7	38.8
PR	445	241	54.2	187	77.6	42.0
S.DIEGO	226	158	69.9	104	65.8	46.0
So.CAR	250	157	62.8	120	76.4	48.0
So.FLA	114	72	63.2	58	80.6	50.9
TEXAS	407	280	68.8	179	63.9	44.0
TULANE	417	275	65.9	170	61.8	40.8
WASH	485	262	54.0	170	64.9	35.1
YALE	319	253	79.3	124	49.0	38.9
TOTAL	11134	6906	62.0 %	4027	58.3 %	36.2 %

TABLE 1-7
U.S. SCHOOLS OF PUBLIC HEALTH
APPLICANTS/ACCEPTANCES/ENROLLMENTS BY SEX, CITIZENSHIP, RACE/ETHNICITY & AREA
FALL 1987

	No. of Schools	APPLICATIONS			NEW ENROLLMENTS		
		No. Made	No. Accepted	% Accepted	No.	As % of Acceptances	As % of Applications
MALES	22	4103	2464	60.1 %	1420	57.6 %	34.6 %
FEMALES		5870	3602	61.4	2125	59.0	36.2
U.S. CITIZENS	22	7473	4803	64.3	2915	60.7	39.0
FOREIGN		2512	1269	50.5	632	49.8	25.2
RACE/ETHNICITY (U.S. CITIZENS)	21						
ASIAN		507	287	56.6	171	59.6	33.7
BLACK		610	287	47.0	187	65.2	30.7
HISPANIC		572	308	53.8	221	71.8	38.6
(excluding PR)	(20)	(292)	(155)	(53.1)	(110)	(71.0)	(37.7)
AMERIND		89	53	59.6	36	67.9	40.4
TOTAL MINORITY		1778	935	52.6	615	65.8	34.6
WHITE		5310	3611	68.0	2158	59.8	40.6
AREA	24						
BIOSTAT		589.0	382.5	64.9	175.0	45.8	29.7
EPID		1754.5	1007.5	57.4	543.0	53.9	30.9
HSA		2716.0	1676.0	61.7	969.0	57.8	35.7
PHP&PM		748.0	434.5	58.1	277.5	63.9	37.1
H.EDUC/BS		1047.5	619.5	59.1	321.5	51.9	30.7
ENV.SC		1137.5	717.5	63.1	394.0	54.9	34.6
OS&H		194.0	138.0	71.1	87.0	63.0	44.8
NUTR		321.5	210.5	65.5	123.0	58.4	38.3
BIOMED		256.0	127.0	49.6	74.0	58.3	28.9
OTHER		1263.0	786.0	62.2	414.0	52.7	32.8
NONSPEC		498.0	341.0	68.5	249.0	73.0	50.0
NONDEGREE		553.0	432.0	78.1	379.0	87.7	68.5
UNKNOWN		56.0	34.0	60.7	21.0	61.8	37.5
TOTAL		11134.0	6906.0	62.0	4027.0	58.3	36.2

B. Applicant Trends 1974-75 through 1987-88

In 1959, the earliest year for which data is available, there were 1,280 applications reported by 10 of the 13 schools of public health (including two Canadian schools). By 1974, when the ASPH Data Center was established, there were almost 10,000 applications reported for 19 [U.S.] schools. Total reported applications reached a high of 13,000 in Fall of 1978 and then began to decline rather rapidly. From 1978 to 1983 total applications declined by over 23%, and the total number of applications reported by 23 schools in Fall 1983 (9,998) was at the same level as that reported for 19 schools (9,916) ten years earlier.

From 1982 through 1985, the total number of applications reported by the schools remained fairly level, at about 10,000 applications each year. Since 1986, the total number of applications reported has been increasing, and preliminary data for Fall 1988 indicates a total of 11,435 applications to the 24 schools of public health. The recent increase in the total number of applications has been caused primarily by the growth in the number of applications received from foreign applicants. The proportion of foreign applicants increased from 20.7% in Fall 1985 to over 25% in Fall 1987. The proportion of foreign applicants has increased steadily since 1974, when foreign applicants constituted less than 12% of the total.

The proportion of female applicants continues to be high; 59% of the applications received in Fall 1987 were from female applicants. Among U.S. applicants the proportion of females is even higher; over 65% of the U.S. applicants in Fall 1987 were female.

In Fall 1987, there were a total of 1,780 applications received from members of minority groups, and minority applicants constituted 25% of the total U.S. applicants. While the number of Asian applicants has been steadily increasing since 1980 (when data on race/ethnicity was first collected by ASPH), the number of Black, mainland Hispanic, and Native American applicants declined until Fall 1986. In the last two years, however, the number of applicants in the latter three groups has increased quite substantially.

As indicated in the "Notes on Data" section (page iv), it is difficult to make any conclusive statements about changes in area of specialization due to classification problems. It does appear that there has been a decline in the proportion of applicants in health services administration and nutrition over the years and an increase in the proportion of applicants in epidemiology and health education/behavioral science. For the most part, however, the data of area of specialization reveals the areas have remained quite stable over the past 14 years.

U.S. SCHOOLS OF PUBLIC HEALTH
CHARACTERISTICS OF APPLICANTS
(Fall Semester)

Applicants by Citizenship

YEAR	U.S.		FOREIGN		UNKNOWN	TOTAL
1959						1280
1960						1594
1961						2274
1962						2376
1963						2884
1964						3591
1965						4026
1966						4109
1967						4709
1968						5215
1969						5999
1974	8744	88.3 %	1162	11.7 %	10	9916
1975	8703	88.1	1170	11.9	907	10780
1976	10018	87.5	1436	12.5	838	12292
1977	10891	88.6	1395	11.4	40	12326
1978 /1	10577	86.8	1606	13.2	817	13000
1980 /2	10070	84.6	1828	15.4	0	11898
1981	9327	84.3	1743	15.7	8	11078
1982 /3	7942	82.2	1714	17.8	365	10021
1983	7339	80.1	1827	19.9	832	9998
1984	7586	80.7	1810	19.3	723	10119
1985	7451	79.3	1944	20.7	720	10115
1986	7989	76.1	2504	23.9	388	10881
1987	7473	74.7	2525	25.3	1136	11134

Applicants by Sex

YEAR	MALES		FEMALES		UNKNOWN	TOTAL
1974	5417	56.6 %	4155	43.4 %	344	9916
1975	5394	54.7	4469	45.3	917	10780
1976	5893	51.6	5522	48.4	877	12292
1977	5929	51.3	5625	48.7	772	12326
1978	5880	48.3	6288	51.7	832	13000
1980	5330	44.9	6547	55.1	21	11898
1981	4683	42.3	6383	57.7	12	11078
1982	4221	42.7	5658	57.3	142	10021
1983	4005	41.5	5636	58.5	357	9998
1984	3828	40.2	5698	59.8	593	10119
1985	3926	40.9	5680	59.1	509	10115
1986	4523	43.3	5914	56.7	444	10881
1987	4112	41.2	5874	58.8	1148	11134

/1 Puerto Rico did not report in 1978.
/2 Minnesota did not report in 1980 and 1981.
/3 San Diego did not report in 1982.

No applicant data was collected in 1979. Data for 1959-1969 is from Dr. James Troupin and includes two Canadian schools.

U.S. SCHOOLS OF PUBLIC HEALTH
CHARACTERISTICS OF APPLICANTS (Continued)

U.S. Applicants by Race/Ethnicity

YEAR	ASIAN		BLACK		HISPANIC				AMERIND		WHITE		UNKNOWN	TOTAL
					PUERTO RICO		MAINLAND							
1980	436	5.2%	824	9.8%	149	1.8%	374	4.5%	113	1.3%	6500	77.4%	1674	10070
1981	481	5.9	760	9.3	277	3.4	257	3.1	88	1.1	6334	77.3	1130	9327
1982	350	5.6	624	9.9	287	4.6	184	2.9	60	1.0	4774	76.0	1663	7942
1983	327	5.1	573	9.0	280	4.4	192	3.0	54	.8	4941	77.6	972	7339
1984	503	7.5	595	8.8	278	4.1	216	3.2	56	.8	5093	75.6	845	7586
1985	444	6.7	550	8.3	289	4.3	198	3.0	55	.8	5126	76.9	789	7451
1986	527	7.2	607	8.3	289	4.0	283	3.9	86	1.2	5514	75.5	683	7989
1987	507	7.1	612	8.6	280	3.9	292	4.1	89	1.2	5348	75.0	345	7473

Applicants by Area of Specialization

YEAR	BIOSTAT		EPID		HSA		PHP&PM		H.EDUC/BS		ENV.SC	
1974	449.0	4.7%	768.0	8.1%	3168.0	33.4%	885.0	9.3%	721.0	7.6%	1065.0	11.2%
1975	425.0	4.2	951.0	9.3	3502.0	34.4	838.0	8.2	745.0	7.3	1039.0	10.2
1976	507.0	4.2	1472.0	12.1	4584.0	37.6	809.0	6.6	770.0	6.3	1214.0	10.0
1977	490.0	4.0	1563.0	12.9	4279.0	35.2	1023.0	8.4	678.0	5.6	1524.0	12.6
1978	464.0	4.0	1422.0	12.4	4337.0	37.8	839.0	7.3	743.0	6.5	1488.0	13.0
1980	392.0	3.3	1372.0	11.7	3558.0	30.4	1023.0	8.7	944.0	8.1	1385.0	11.8
1981	366.0	3.3	1302.0	11.8	2959.5	26.7	1005.0	9.1	906.5	8.2	1307.0	11.8
1983	444.0	4.6	1386.0	14.3	2903.0	30.0	786.5	8.1	834.5	8.6	1233.0	12.8
1984	432.0	4.6	1296.0	13.7	2816.0	29.7	800.0	8.4	927.5	9.8	1175.5	12.4
1985	393.0	4.1	1372.5	14.4	2797.5	29.3	829.5	8.7	963.0	10.1	1104.5	11.6
1986	487.0	4.7	1494.5	14.4	2954.5	28.5	866.5	8.3	1156.0	11.1	1199.5	11.6
1987	589.0	5.6	1754.5	16.7	2716.0	25.8	748.0	7.1	1047.5	10.0	1137.5	10.8

YEAR	OS&H		NUTR		BIOMED		OTHER		NONSPEC		NONDEGREE	UNKNOWN	TOTAL
1974	63.0	.7%	458.0	4.8%	N/A	N/A	1503.0	15.8%	418.0	4.4%	N/A	418.0	9916.0
1975	155.0	1.5	503.0	4.9	282.0	2.8%	884.0	8.7	864.0	8.5	N/A	592.0	10780.0
1976	138.0	1.1	581.0	4.8	366.0	3.0	1750.0	14.4	N/A	N/A	N/A	101.0	12292.0
1977	226.0	1.9	545.0	4.5	351.0	2.9	1171.0	9.6	291.0	2.4	N/A	185.0	12326.0
1978	225.0	2.0	621.0	5.4	251.0	2.2	1096.0	9.5	N/A	N/A	N/A	1514.0	13000.0
1980	328.0	2.8	678.0	5.8	356.0	3.0	1686.0	14.4	N/A	N/A	N/A	176.0	11898.0
1981	327.0	3.0	436.5	3.9	443.0	4.0	2025.5	18.3	N/A	N/A	N/A	0.0	11078.0
1983	118.5	1.2	391.0	4.0	319.0	3.3	937.5	9.7	309.0	3.2	244.0	92.0	9998.0
1984	124.0	1.3	406.0	4.3	331.0	3.5	859.0	9.1	306.0	3.2	350.0	296.0	10119.0
1985	153.0	1.6	353.0	3.7	319.0	3.3	936.0	9.8	331.0	3.5	456.0	107.0	10115.0
1986	95.0	.9	332.5	3.2	292.0	2.8	1037.5	10.0	463.0	4.5	418.0	85.0	10881.0
1987	194.0	1.8	321.5	3.1	256.0	2.4	1263.0	12.0	498.0	4.7	553.0	56.0	11134.0

No data on areas was collected in 1979 or 1982.
Beginning in 1981 applicants with dual specialization are counted as .5 in each area.
Until 1983 nondegree applicants were counted under their area of specialization or under nonspecialized.

TOTAL APPLICATIONS
U.S. SCHOOLS OF PUBLIC HEALTH
(Fall Semester)

SCHOOL	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988 (Prelim)
ALA	*	*	*	*	46		116	98	60	100	81	121	138	248	354
BOSTON	*	*	*	*	*		*	149	202	236	315	295	322	319	293
CAL-BERK	842	1022	1125	897	1084	D	874	835	652	714	669	671	712	781	782
CAL-UCLA	1238	1217	1097	795	930	A	1050	847	791	763	750	727	848	795	698
COLUMBIA	473	623	799	790	867	T	774	611	654	680	625	618	609	522	567
HARVARD	549	812	869	791	947	A	972	666	740	626	734	730	744	673	794
HAWAII	276	313	385	388	343		377	386	319	263	196	241	230	241	233
ILL	203	255	365	287	371	N	352	376	143	121	261	320	132	187	143
JHU	758	938	1129	1176	1292	O	1272	1326	1249	1235	1123	1138	1207	1388	1359
L.LINDA	194	198	265	260	245	T	212	376	174	145	177	185	221	189	205
MASS	190	195	236	235	310		259	262	265	219	170	192	192	251	211
MICH	1057	1273	1159	1112	1113	A	1153	1056	761	763	768	733	796	882	1006
MINN	716	679	753	947	800	V	**	**	645	453	433	426	319	350	415
No.CAR	1001	1026	1268	1506	1464	A	1449	1347	1083	1057	1159	942	985	1002	969
OKLA	120	146	205	266	256	I	205	116	112	195	147	153	193	164	185
PITT	615	603	748	611	782	L	557	636	492	495	530	493	496	479	484
PR	492	221	96	178	**	A	160	300	312	295	301	289	415	445	366
S.DIEGO	*	*	*	*	*	L	*	*	**	164	187	226	187	226	196
So.CAR	*	*	*	67	111	B	165	162	102	189	231	249	494	250	275
So.FLA	*	*	*	*	*	E	*	*	*	*	*	*	58	114	125
TEXAS	441	386	473	765	618		576	445	368	339	360	367	433	407	379
TULANE	179	134	453	455	546		572	143	356	368	347	312	337	417	496
WASH	261	338	383	412	450		446	376	250	322	287	345	472	485	580
YALE	311	401	484	388	425		357	365	291	241	268	342	341	319	320
TOTAL	9916	10780	12292	12326	13000		11898	11078	10021	9983	10119	10115	10881	11134	11435
***	8708	9880	11443	11134	12043		11457	10369	8700	8546	8571	8507	8948	9182	9411
		+13%	+16%	-3%	+8%		-5%	-10%	-16%	-2%	+0.3%	-0.7%	+5.2%	+2.6%	+2.5%

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* Indicates school not yet in operation.
** Indicates missing data.
*** Trends for 17 schools with complete data for all years.

U.S. SCHOOLS OF PUBLIC HEALTH
TRENDS IN APPLICATIONS/ACCEPTANCES/ENROLLMENTS /1

	No. of Schools	APPLICATIONS			NEW ENROLLMENTS		
		No. Made	No. Accepted	% Accepted	No.	As % of Acceptances	As % of Applications
1961-62	14	2274	1465	64.4 %	---	---	---
1965-66	15	4026	2543	63.2	1797	70.7 %	44.6 %
1967-68	17	4709	2682	57.0	1947	72.6	41.3
1969-70	18	5999	3321	55.4	2317	69.8	38.6
1974-75	17	8708	---	---	2715	---	31.2
1976-77	17	11443	---	---	3051	---	26.7
1978-79	17	12043	---	---	3391	---	28.2
1981-82	17	10369	5217	50.3	---	---	---
1983-84	17	8561	5352	62.5	2825	52.8	33.0
1985-86	17	8509	5314	62.5	3021	56.8	35.5
1987-88	17	9182	5570	60.7	3093	55.5	33.7

/1 ASPH data (1974-1987) includes the 17 schools with complete data for those years. 1960s data from Dr. James Troupin includes two Canadian schools.

II. NEW ENROLLMENTS, FALL 1987

There were 4,027 new enrollments in the 24 schools for Fall 1987, a slight increase over Fall 1986 (3,928). New enrollments represented over 37% of the total enrollment in the schools (39% in 1986).

The proportion of new female students was about 60% (over 64% for U.S. new enrollments), and foreign students represented almost 19% of new enrollments. The number and proportion of new minority students increased in Fall 1987 (640 or 22.1%).

Table 2-6 shows the trends in new enrollments since the 1974-75 academic year. In the early 1970s, new enrollments constituted about half of the total enrollments in the schools of public health. Today, new enrollments represent less than 40% of total enrollments. The increased length of master's degree programs (from one to two years for most programs) and the currently high proportion of part-time students are chief factors involved in this change.

U.S. SCHOOLS OF PUBLIC HEALTH
SUMMARY CHARACTERISTICS OF NEW ENROLLMENTS
FALL 1987

SEX & CITIZENSHIP

MALES	1521	40.9 %	U.S.	3018	81.2 %
FEMALES	2194	59.1	FOREIGN	699	18.8
UNKNOWN	312	---	UNKNOWN	310	---
TOTAL	4027	100.0 %	TOTAL	4027	100.0 %

U.S. MALES	1076	35.7 %	FOR. MALES	445	63.7 %
U.S. FEMALES	1940	64.3	FOR. FEMALES	254	36.3
UNKNOWN	2	---	UNKNOWN	---	---
TOTAL	3018	100.0 %	TOTAL	699	100.0 %

RACE/ETHNICITY (U.S. CITIZENS)	MALES	FEMALES	UNKNOWN	TOTAL	
ASIAN	59	113	0	172	5.9 %
BLACK	62	137	1	200	6.9
HISPANIC					
PUERTO RICO	40	71	0	111	3.8
MAINLAND	49	70	0	119	4.1
AMERIND	11	27	0	38	1.3
(TOTAL MIN.)	(221)	(418)	(1)	(640)	(22.1)
WHITE	811	1449	1	2261	77.9
UNKNOWN	44	73	0	117	---
TOTAL	1076	1940	2	3018	100.0 %

AREA OF SPECIALIZATION		
BIOSTAT	175.0	4.8 %
EPID	543.0	15.0
HSA	969.0	26.7
PHP&PM	277.5	7.7
H.EDUC/BS	321.5	8.9
ENV.SC	394.0	10.9
OS&H	87.0	2.4
NUTR	123.0	3.4
BIOMED	74.0	2.0
OTHER	414.0	11.4
NONSPEC	249.0	6.9
NONDEGREE	379.0	---
UNKNOWN	21.0	---
TOTAL	4027.0	100.0 %

TABLE 2-1
U.S. SCHOOLS OF PUBLIC HEALTH
NEW ENROLLMENTS BY SCHOOL, SEX, & CITIZENSHIP
FALL 1987

SCHOOL	MALE	FEMALE	UNKNOWN	TOTAL
ALA	77.0	85.0	.0	162.0
BOSTON	51.0	120.0	.0	171.0
CAL-BERK	81.0	159.0	.0	240.0
CAL-UCLA	90.0	137.0	.0	227.0
COLUMBIA	.0	.0	249.0	249.0
HARVARD	146.0	119.0	.0	265.0
HAWAII	30.0	57.0	.0	87.0
ILL	8.0	19.0	.0	27.0
JHU	193.0	209.0	.0	402.0
L.LINDA	31.0	37.0	.0	68.0
MASS	14.0	24.0	.0	38.0
MICH	79.0	143.0	61.0	283.0
MINN	47.0	84.0	1.0	132.0
No.CAR	114.0	183.0	.0	297.0
OKLA	23.0	58.0	.0	81.0
PITT	63.0	123.0	.0	186.0
PR	95.0	92.0	.0	187.0
S.DIEGO	32.0	71.0	1.0	104.0
So.CAR	49.0	71.0	.0	120.0
So.FLA	22.0	36.0	.0	58.0
TEXAS	62.0	117.0	.0	179.0
TULANE	101.0	69.0	.0	170.0
WASH	68.0	102.0	.0	170.0
YALE	45.0	79.0	.0	124.0
Total	1521.0	2194.0	312.0	4027.0

SCHOOL	U.S.	FOREIGN	UNKNOWN	TOTAL
ALA	119.0	43.0	.0	162.0
BOSTON	153.0	18.0	.0	171.0
CAL-BERK	216.0	24.0	.0	240.0
CAL-UCLA	177.0	50.0	.0	227.0
COLUMBIA	.0	.0	249.0	249.0
HARVARD	208.0	57.0	.0	265.0
HAWAII	61.0	26.0	.0	87.0
ILL	20.0	7.0	.0	27.0
JHU	276.0	126.0	.0	402.0
L.LINDA	45.0	23.0	.0	68.0
MASS	29.0	9.0	.0	38.0
MICH	202.0	20.0	61.0	283.0
MINN	124.0	8.0	.0	132.0
No.CAR	259.0	38.0	.0	297.0
OKLA	78.0	3.0	.0	81.0
PITT	167.0	19.0	.0	186.0
PR	111.0	76.0	.0	187.0
S.DIEGO	101.0	3.0	.0	104.0
So.CAR	106.0	14.0	.0	120.0
So.FLA	54.0	4.0	.0	58.0
TEXAS	162.0	17.0	.0	179.0
TULANE	103.0	67.0	.0	170.0
WASH	147.0	23.0	.0	170.0
YALE	100.0	24.0	.0	124.0
Total	3018.0	699.0	310.0	4027.0

TABLE 2-2
U.S. SCHOOLS OF PUBLIC HEALTH
U.S. NEW ENROLLMENTS BY SCHOOL & RACE/ETHNICITY
FALL 1987

SCHOOL	ASIAN	BLACK	HISPANIC	AMERIND	TOTAL MINORITY
ALA	.0	21.0	1.0	1.0	23.0
BOSTON	4.0	3.0	3.0	.0	10.0
CAL-BERK	16.0	13.0	16.0	5.0	50.0
CAL-UCLA	16.0	13.0	28.0	1.0	58.0
COLUMBIA	.0	.0	.0	.0	.0
HARVARD	12.0	10.0	5.0	.0	27.0
HAWAII	23.0	1.0	.0	3.0	27.0
ILL	.0	1.0	.0	.0	1.0
JHU	24.0	14.0	10.0	.0	48.0
L.LINDA	11.0	.0	.0	1.0	12.0
MASS	.0	1.0	.0	.0	1.0
MICH	6.0	14.0	7.0	1.0	28.0
MINN	1.0	3.0	.0	.0	4.0
No.CAR	10.0	21.0	3.0	7.0	41.0
OKLA	1.0	6.0	1.0	12.0	20.0
PITT	8.0	10.0	3.0	.0	21.0
PR	.0	.0	111.0	.0	111.0
S.DIEGO	6.0	5.0	6.0	1.0	18.0
So.CAR	1.0	15.0	.0	1.0	17.0
So.FLA	3.0	3.0	4.0	.0	10.0
TEXAS	16.0	19.0	13.0	.0	48.0
TULANE	1.0	12.0	9.0	2.0	24.0
WASH	6.0	3.0	4.0	3.0	16.0
YALE	7.0	12.0	6.0	.0	25.0
Total	172.0	200.0	230.0	38.0	640.0

SCHOOL	WHITE	UNKNOWN	TOTAL
ALA	96.0	.0	119.0
BOSTON	73.0	70.0	153.0
CAL-BERK	166.0	.0	216.0
CAL-UCLA	116.0	3.0	177.0
COLUMBIA	.0	.0	.0
HARVARD	153.0	28.0	208.0
HAWAII	32.0	2.0	61.0
ILL	19.0	.0	20.0
JHU	228.0	.0	276.0
L.LINDA	33.0	.0	45.0
MASS	24.0	4.0	29.0
MICH	172.0	2.0	202.0
MINN	118.0	2.0	124.0
No.CAR	218.0	.0	259.0
OKLA	58.0	.0	78.0
PITT	146.0	.0	167.0
PR	.0	.0	111.0
S.DIEGO	77.0	6.0	101.0
So.CAR	89.0	.0	106.0
So.FLA	44.0	.0	54.0
TEXAS	114.0	.0	162.0
TULANE	79.0	.0	103.0
WASH	131.0	.0	147.0
YALE	75.0	.0	100.0
Total	2261.0	117.0	3018.0

TABLE 2-3
U.S. SCHOOLS OF PUBLIC HEALTH
NEW ENROLLMENTS BY AREA, SEX & CITIZENSHIP
FALL 1987

AREA	MALE	FEMALE	UNKNOWN	TOTAL
BIOSTAT	70.0	77.0	28.0	175.0
EPID	239.5	278.5	25.0	543.0
HSA	343.0	573.0	53.0	969.0
PHP&PM	71.0	201.5	5.0	277.5
H.EDUC/BS	67.0	247.5	7.0	321.5
ENV.SC	199.5	161.5	33.0	394.0
OS&H	52.0	31.0	4.0	87.0
NUTR	20.0	96.0	7.0	123.0
BIOMED	35.0	39.0	.0	74.0
OTHER	152.0	216.0	46.0	414.0
NONSPEC	134.0	92.0	23.0	249.0
NONDEGREE	133.0	171.0	75.0	379.0
UNKNOWN	5.0	10.0	6.0	21.0
Total	1521.0	2194.0	312.0	4027.0

AREA	U.S.	FOREIGN	UNKNOWN	TOTAL
BIOSTAT	96.0	51.0	28.0	175.0
EPID	387.5	130.5	25.0	543.0
HSA	831.0	86.0	52.0	969.0
PHP&PM	236.0	36.5	5.0	277.5
H.EDUC/BS	287.5	28.0	6.0	321.5
ENV.SC	305.5	55.5	33.0	394.0
OS&H	79.0	4.0	4.0	87.0
NUTR	97.5	18.5	7.0	123.0
BIOMED	59.0	15.0	.0	74.0
OTHER	245.0	123.0	46.0	414.0
NONSPEC	131.0	95.0	23.0	249.0
NONDEGREE	250.0	54.0	75.0	379.0
UNKNOWN	13.0	2.0	6.0	21.0
Total	3018.0	699.0	310.0	4027.0

AREA	U.S. MALES	U.S. FEMALES	FOR. MALES	FOR. FEMALES
BIOSTAT	40.0	56.0	30.0	21.0
EPID	144.0	243.5	95.5	35.0
HSA	286.0	544.0	57.0	29.0
PHP&PM	51.0	185.0	20.0	16.5
H.EDUC/BS	53.0	233.5	14.0	14.0
ENV.SC	169.0	136.5	30.5	25.0
OS&H	48.0	31.0	4.0	.0
NUTR	15.0	82.5	5.0	13.5
BIOMED	24.0	35.0	11.0	4.0
OTHER	77.0	168.0	75.0	48.0
NONSPEC	68.0	63.0	66.0	29.0
NONDEGREE	98.0	152.0	35.0	19.0
UNKNOWN	3.0	10.0	2.0	.0
Total	1076.0	1940.0	445.0	254.0

TABLE 2-4
U.S. SCHOOLS OF PUBLIC HEALTH
U.S. NEW ENROLLMENTS BY AREA & RACE/ETHNICITY
FALL 1987

AREA	ASIAN	BLACK	HISPANIC	
			PUERTO RICO	MAINLAND
BIOSTAT	11.0	6.0	0.0	2.0
EPID	31.5	25.0	7.0	13.0
HSA	37.0	66.5	15.0	36.0
PHP&PM	10.0	22.0	13.0	10.0
H.EDUC/BS	19.5	13.5	13.0	12.0
ENV.SC	13.5	12.0	14.0	5.0
OS&H	3.0	3.0	0.0	5.0
NUTR	7.5	5.0	11.0	6.0
BIOMED	10.0	4.0	0.0	0.0
OTHER	16.0	8.0	5.0	17.0
NONSPEC	4.0	10.0	33.0	7.0
NONDEGREE	8.0	25.0	0.0	6.0
UNKNOWN	1.0	0.0	0.0	0.0
TOTAL	172.0	200.0	111.0	119.0

AREA	AMERIND	WHITE	UNKNOWN	TOTAL
BIOSTAT	2.0	73.0	2.0	96.0
EPID	1.0	306.0	4.0	387.5
HSA	21.0	643.5	12.0	831.0
PHP&PM	1.0	178.0	2.0	236.0
H.EDUC/BS	7.0	220.5	2.0	287.5
ENV.SC	1.0	252.0	8.0	305.5
OS&H	0.0	66.0	2.0	79.0
NUTR	1.0	66.0	1.0	97.5
BIOMED	0.0	45.0	0.0	59.0
OTHER	2.0	194.0	3.0	245.0
NONSPEC	0.0	73.0	4.0	131.0
NONDEGREE	2.0	132.0	77.0	250.0
UNKNOWN	0.0	12.0	0.0	13.0
TOTAL	38.0	2261.0	117.0	3018.0

TABLE 2-5
U.S. SCHOOLS OF PUBLIC HEALTH
NEW ENROLLMENTS AND TOTAL ENROLLMENTS BY SCHOOL
FALL 1987

SCHOOL	NEW ENROLLMENTS	TOTAL ENROLLMENTS	NEW ENROLLMENTS AS % OF TOTAL ENROLLMENTS
ALA	162	322	50.3 %
BOSTON	171	313	54.6
CAL-BERK	240	482	49.8
CAL-UCLA	227	651	34.9
COLUMBIA	249	529	47.1
HARVARD	265	469	56.5
HAWAII	87	249	34.9
ILL	27 /1	317	8.5
JHU	402	1001	40.2
L.LINDA	68 /2	459	14.8
MASS	38	166	22.9
MICH	283	691	41.0
MINN	132	370	35.7
No.CAR	297	819	36.3
OKLA	81	368	22.0
PITT	186	607	30.6
PR	187	404	46.3
S.DIEGO	104	241	43.2
So.CAR	120	304	39.5
So.FLA	58 /1	293	19.8
TEXAS	179	532	33.6
TULANE	170	460	37.0
WASH	170	428	39.7
YALE	124	286	43.4
TOTAL	4027	10761	37.4 %

/1 Excludes non-degree students.

/2 Approximately half of Loma Linda's students are in off-campus programs. These masters programs are generally of 4 years' duration.

TABLE 2-6
U.S. SCHOOLS OF PUBLIC HEALTH
TRENDS IN NEW ENROLLMENTS

YEAR	NEW ENROLLMENTS	TOTAL ENROLLMENTS	NEW ENROLLMENTS AS % OF TOTAL ENROLLMENTS
1974	2980	5821	51.2 %
1975	2708	6461	41.9
1976	3317	6615	50.1
1977	3427	6841	50.1
1978	3735	7722	48.4
1979	N/A	8215	N/A
1980	3348	8486	39.5
1981	N/A	9047	N/A
1982	3338	8896	37.5
1983	3444	8937	38.5
1984	3812	8957	42.6
1985	3836	9494	40.4
1986	3928	10104	38.9
1987	4027	10761	37.4
1988 (Est.)	4019	10965	36.7

III. STUDENTS

A. Fall 1987 Students

There were 10,761 students enrolled in the 24 schools in Fall 1987, almost a 7% increase over Fall 1986 (10,104). Of this total, 60% were female, over 16% were foreign, and over 19% of the U.S. students were members of minority groups. Tables 3-1 and 3-2 show demographic breakdowns of students by school. There were some significant differences among schools regarding the demographic characteristics of their students. For example, 8 schools had over 23% foreign enrollments, while other schools had few foreign students. There were also some significant differences in the proportion of male/female and minority students by school.

Almost half (48%) of the students were enrolled in MPH programs and about 70% of the total students were in master's degree programs. Almost 22% were in doctoral degree programs and less than 9% were nondegree students. Table 3-3 shows differences in degree programs based on demographic characteristics. A slightly higher proportion of males (24%) still pursue doctorates than females (21%), and a higher proportion of foreign students (29%) pursue doctorates than U.S. students (21%). In 1987, 23% of the White students were pursuing doctorates compared to 18% of Asian students, 16% of Black students, 13% of mainland Hispanic students, and 9% of Native American students.

Data on joint degrees (Tables 3-5 and 3-6), other than the MD-MPH, has only been collected by ASPH since 1983. Almost 27% of the joint degrees reported were joint MD degrees, and close to one-third (32%) were joint MBA degrees. Over one-third (39%) of the joint degrees were sought by students in health services administration and another one-third (33%) by students in general public health (nonspecialized) studies.

Over one-half of the students were enrolled in three program areas. Health services administration is the largest program area in schools of public health and had over 28% of the students in Fall 1987; epidemiology had 15% of the students and environmental sciences had 13%.

There were some differences in program area based on demographic characteristics (Table 3-7). Women were represented more in public health practice, health education and nutrition than men and less in environmental sciences and occupational health. Foreign students were represented more in "other" areas, principally international health and population studies, and less in health services administration than U.S. students. Asian students had more representation in biostatistics (over 8%). Blacks (37%) and American Indians (58%) were represented more in health services administration. Hispanic students at Puerto Rico were represented more in health education (21%), environmental sciences (27%) and nonspecialized studies (16%), while mainland Hispanic students were represented more in health services administration (29%), epidemiology (16%), and "other" areas (14%).

The areas with the largest proportion of doctoral students (Table 3-9) were biomedical sciences (66%), biostatistics (43%), epidemiology (35%), and environmental sciences (31%).

Over one-third (36%) of the Fall 1987 students were part-time. The proportion of part-time students varied greatly among schools (Table 3-11), and eight schools had a majority of part-time students.

ASPH began to collect data on students in non-traditional degree programs in 1983. A total of 814 students were reported in non-traditional degree programs at 10 schools. These students constituted almost 8% of the total enrollments for Fall 1987.

U.S. SCHOOLS OF PUBLIC HEALTH
SUMMARY CHARACTERISTICS OF STUDENTS
FALL 1987

SEX & CITIZENSHIP

MALES	4095	40.1 %	U.S.	8562	83.7 %
FEMALES	6125	59.9	FOREIGN	1664	16.3
UNKNOWN	541	---	UNKNOWN	535	---
TOTAL	10761	100.0 %	TOTAL	10761	100.0 %
U.S. MALES	3067	35.8 %	FOR. MALES	1024	61.9 %
U.S. FEMALES	5494	64.2	FOR. FEMALES	629	38.1
UNKNOWN	1	---	UNKNOWN	11	---
TOTAL	8562	100.0 %	TOTAL	1664	100.0 %

RACE/ETHNICITY (U.S. CITIZENS)	MALES	FEMALES	UNKNOWN	TOTAL	
ASIAN	149	308	0	457	5.4 %
BLACK	166	357	0	523	6.2
HISPANIC					
PUERTO RICO	80	202	0	282	3.3
MAINLAND	127	160	0	287	3.4
AMERIND	33	55	0	88	1.0
(TOTAL MIN.)	(555)	(1082)	(0)	(1637)	(19.3)
WHITE	2491	4366	1	6858	80.7
UNKNOWN	21	46	0	67	---
TOTAL	3067	5494	1	8562	100.0 %

STATUS

FULL-TIME	6098	56.7 %
PART-TIME	3849	35.8
OTHER	814	7.6
UNKNOWN	---	---
TOTAL	10761	100.0 %

AREA OF SPECIALIZATION

BIOSTAT	550.0	5.6 %	NUTR	283.5	2.9 %
EPID	1508.5	15.4	BIOMED	267.0	2.7
HSA	2777.5	28.3	OTHER	872.5	8.9
PHP&PM	598.0	6.1	NONSPEC	497.0	5.1
H.EDUC/BS	978.5	10.0	NONDEGREE	940.0	---
ENV.SC	1247.5	12.7	UNKNOWN	17.0	---
OS&H	224.0	2.3			
			TOTAL	10761.0	100.0 %

DEGREE OBJECTIVE

MPH	5201	48.3 %	OTHER DOCT.	91	.8 %
MS	1028	9.6	JOINT DEGREE	203	1.9
MSPH	337	3.1	NONDEGREE	940	8.7
MHA/MHSA	440	4.1	UNKNOWN	4	---
OTHER MASTERS	290	2.7			
DrPH	667	6.2	TOTAL	10761	100.0 %
ScD	318	3.0	TOTAL MASTERS	7496	69.7 %
PhD	1242	11.5	TOTAL DOCT	2321	21.6 %

TABLE 3-1
U.S. SCHOOLS OF PUBLIC HEALTH
STUDENTS BY SCHOOL, SEX & CITIZENSHIP
FALL 1987

SCHOOL	MALE		FEMALE		UNKNOWN	TOTAL
ALA	167	51.9 %	155	48.1 %	0	322
BOSTON	84	26.8	229	73.2	0	313
CAL-BERK	162	33.6	320	66.4	0	482
CAL-UCLA	268	41.2	383	58.8	0	651
COLUMBIA	0		0		529	529
HARVARD	235	50.1	234	49.9	0	469
HAWAII	93	37.3	156	62.7	0	249
ILL	97	30.6	220	69.4	0	317
JHU	417	42.1	573	57.9	11	1001
L.LINDA	199	43.4	260	56.6	0	459
MASS	56	33.7	110	66.3	0	166
MICH	290	42.0	401	58.0	0	691
MINN	121	32.8	248	67.2	1	370
No.CAR	319	38.9	500	61.1	0	819
OKLA	152	41.3	216	58.7	0	368
PITT	232	38.2	375	61.8	0	607
PR	166	41.1	238	58.9	0	404
S.DIEGO	75	31.1	166	68.9	0	241
So.CAR	127	41.8	177	58.2	0	304
So.FLA	89	30.4	204	69.6	0	293
TEXAS	204	38.3	328	61.7	0	532
TULANE	257	55.9	203	44.1	0	460
WASH	184	43.0	244	57.0	0	428
YALE	101	35.3	185	64.7	0	286
TOTAL	4095	40.1 %	6125	59.9 %	541	10761

SCHOOL	U.S.		FOREIGN		UNKNOWN	TOTAL
ALA	248	77.0 %	74	23.0 %	0	322
BOSTON	288	92.0	25	8.0	0	313
CAL-BERK	438	90.9	44	9.1	0	482
CAL-UCLA	500	76.8	151	23.2	0	651
COLUMBIA	0		0		529	529
HARVARD	359	76.5	110	23.5	0	469
HAWAII	185	74.3	64	25.7	0	249
ILL	281	88.6	36	11.4	0	317
JHU	759	75.8	242	24.2	0	1001
L.LINDA	333	72.5	126	27.5	0	459
MASS	143	86.1	23	13.9	0	166
MICH	593	86.6	92	13.4	6	691
MINN	342	92.4	28	7.6	0	370
No.CAR	711	86.8	108	13.2	0	819
OKLA	345	93.8	23	6.3	0	368
PITT	539	88.8	68	11.2	0	607
PR	282	69.8	~~122~~	30.2	0	404
S.DIEGO	233	96.7	8	3.3	0	241
So.CAR	278	91.4	26	8.6	0	304
So.FLA	287	98.0	6	2.0	0	293
TEXAS	477	89.7	55	10.3	0	532
TULANE	321	69.8	139	30.2	0	460
WASH	379	88.6	49	11.4	0	428
YALE	241	84.3	45	15.7	0	286
TOTAL	8562	83.7 %	1664	16.3 %	535	10761

TABLE 3-2
U.S. SCHOOLS OF PUBLIC HEALTH
U.S. STUDENTS BY SCHOOL & RACE/ETHNICITY
FALL 1987

SCHOOL	ASIAN		BLACK		HISPANIC		AMERIND		TOTAL MINORITY	
ALA	4	1.6 %	41	16.5 %	2	.8 %	2	.8 %	49	19.8 %
BOSTON	8	2.8	10	3.5	7	2.4	0	.0	25	8.7
CAL-BERK	29	6.6	31	7.1	25	5.7	9	2.1	94	21.5
CAL-UCLA	48	10.0	29	6.1	56	11.7	1	.2	134	28.0
COLUMBIA	0	---	0	---	0	---	0	---	0	---
HARVARD	23	6.4	12	3.3	9	2.5	0	.0	44	12.3
HAWAII	59	33.5	1	.6	0	.0	7	4.0	67	38.1
ILL	14	5.0	38	13.6	12	4.3	0	.0	64	22.9
JHU	49	6.5	43	5.7	15	2.0	1	.1	108	14.2
L.LINDA	31	9.3	12	3.6	7	2.1	9	2.7	59	17.7
MASS	8	5.6	3	2.1	1	.7	0	.0	12	8.5
MICH	25	4.2	27	4.6	11	1.9	1	.2	64	10.8
MINN	1	.3	4	1.2	2	.6	1	.3	8	2.3
No.CAR	14	2.0	50	7.0	9	1.3	10	1.4	83	11.7
OKLA	7	2.0	32	9.3	9	2.6	28	8.1	76	22.0
PITT	23	4.3	22	4.1	9	1.7	1	.2	55	10.2
PR	0	.0	0	.0	282	100.0	0	.0	282	100.0
S.DIEGO	16	7.8	10	4.9	17	8.3	2	1.0	45	22.0
So.CAR	3	1.1	35	12.6	3	1.1	2	.7	43	15.5
So.FLA	9	3.2	15	5.3	21	7.4	1	.4	46	16.1
TEXAS	36	7.5	48	10.1	37	7.8	1	.2	122	25.6
TULANE	20	6.2	31	9.7	15	4.7	2	.6	68	21.2
WASH	16	4.3	5	1.3	11	2.9	9	2.4	41	10.9
YALE	14	5.8	24	10.0	9	3.7	1	.4	48	19.9
TOTAL	457	5.4 %	523	6.2 %	569	6.7 %	88	1.0 %	1637	19.3 %

SCHOOL	WHITE		UNKNOWN	TOTAL
ALA	199	80.2 %	0	248
BOSTON	263	91.3	0	288
CAL-BERK	344	78.5	0	438
CAL-UCLA	344	72.0	22	500
COLUMBIA	0	---	0	0
HARVARD	315	87.7	0	359
HAWAII	109	61.9	9	185
ILL	215	77.1	2	281
JHU	651	85.8	0	759
L.LINDA	274	82.3	0	333
MASS	130	91.5	1	143
MICH	529	89.2	0	593
MINN	334	97.7	0	342
No.CAR	628	88.3	0	711
OKLA	269	78.0	0	345
PITT	484	89.8	0	539
PR	0	.0	0	282
S.DIEGO	160	78.0	28	233
So.CAR	235	84.5	0	278
So.FLA	239	83.9	2	287
TEXAS	355	74.4	0	477
TULANE	253	78.8	0	321
WASH	335	89.1	3	379
YALE	193	80.1	0	241
TOTAL	6858	80.7 %	67	8562

TABLE 3-3
U.S. SCHOOLS OF PUBLIC HEALTH
STUDENTS BY DEGREE OBJECTIVE, SEX, CITIZENSHIP & RACE/ETHNICITY /1
FALL 1987

DEGREE OBJECTIVE	MALE		FEMALE		U.S.		FOREIGN	
MPH	1842	45.0 %	2982	48.7 %	4012	46.9 %	824	49.5 %
MS	399	9.7	602	9.8	870	10.2	131	7.9
MSPH	151	3.7	186	3.0	309	3.6	28	1.7
MHA/MHSA	186	4.5	254	4.1	415	4.8	25	1.5
OTHER.MAST	98	2.4	192	3.1	266	3.1	24	1.4
DrPH	244	6.0	362	5.9	463	5.4	142	8.5
ScD	141	3.4	166	2.7	227	2.7	80	4.8
PhD	537	13.1	705	11.5	991	11.6	246	14.8
OTHER.DOC	57	1.4	45	.7	84	1.0	18	1.1
JOINT.DEG	87	2.1	116	1.9	193	2.3	10	.6
NONDEGREE	353	8.6	511	8.3	728	8.5	136	8.2
UNKNOWN	0	---	4	---	4	---	0	---
TOTAL	4095	100.0 %	6125	100.0 %	8562	100.0 %	1664	100.0 %
% MASTERS /2	67.4		70.8		70.8		62.6 %	
% DOCT. /2	24.0		20.9		20.7		29.2 %	

DEGREE OBJECTIVE	ASIAN		BLACK		HISPANIC			
					PUERTO RICO		MAINLAND	
MPH	246	53.8 %	277	53.0 %	58	20.6 %	188	65.5 %
MS	49	10.7	24	4.6	115	40.8	18	6.3
MSPH	9	2.0	33	6.3	0	.0	4	1.4
MHA/MHSA	9	2.0	13	2.5	22	7.8	1	.3
OTHER.MAST	7	1.5	10	1.9	79	28.0	1	.3
DrPH	24	5.3	36	6.9	0	.0	14	4.9
ScD	12	2.6	7	1.3	0	.0	3	1.0
PhD	37	8.1	36	6.9	0	.0	18	6.3
OTHER.DOC	7	1.5	3	.6	0	.0	2	.7
JOINT.DEG	11	2.4	13	2.5	0	.0	9	3.1
NONDEGREE	46	10.1	71	13.6	8	2.8	29	10.1
UNKNOWN	0	---	0	---	0	---	0	---
TOTAL	457	100.0 %	523	100.0 %	282	100.0 %	287	100.0 %
% MASTERS /2	72.4		70.7		100.0		77.0	
% DOCT. /2	17.5		15.7		---		12.9	

DEGREE OBJECTIVE	AMERIND		WHITE	
MPH	60	68.2 %	3134	45.7 %
MS	6	6.8	651	9.5
MSPH	2	2.3	261	3.8
MHA/MHSA	1	1.1	369	5.4
OTHER.MAST	0	.0	169	2.5
DrPH	4	4.5	381	5.6
ScD	0	.0	205	3.0
PhD	4	4.5	894	13.0
OTHER.DOC	0	.0	72	1.1
JOINT.DEG	2	2.3	156	2.3
NONDEGREE	9	10.2	562	8.2
UNKNOWN	0	---	4	---
TOTAL	88	100.0 %	6858	100.0 %
% MASTERS /2	80.7		69.1	
% DOCT. /2	9.1		22.7	

/1 Excludes students of unknown sex, citizenship, and race/ethnicity.
/2 Includes joint degrees classified according to school of public health degree.

TABLE 3-4
U.S. SCHOOLS OF PUBLIC HEALTH
STUDENTS BY SCHOOL AND DEGREE OBJECTIVE
FALL 1987

SCHOOL	MPH	MS	MSPH	MHA/ MHSA	OTHER MASTERS	DrPH	ScD	PhD	OTHER DOCT.	JOINT DEGREE	NON-DEGREE	UNKNOWN	TOTAL	% MAST. /1	% DOCT. /1	% NON-DEGREE
ALA	149		49			31		11		28	50	4	322	71.1%	13.2%	15.7%
BOSTON	297						16				N/A		313			N/A
CAL-BERK	243					71		77		91			482	50.4	49.6	.0
CAL-UCLA	289	130				56		96	48	20	12		651	67.1	31.0	1.8
COLUMBIA	365	27				61					76		529	74.1	11.5	14.4
HARVARD	115	155			5	24	152				18		469	58.6	37.5	3.8
HAWAII	178	14				29		12			16		249	77.1	16.5	6.4
ILL	106	26				26		30			129		317	41.6	17.7	40.7
JHU	206	31			100	75	111	252			226		1001	33.7	43.8	22.6
L.LINDA	280		3	36		24			27		89		459	69.5	11.1	19.4
MASS	57	79						30			N/A		166			N/A
MICH	312	113		83		25		131			27		691	73.5	22.6	3.9
MINN	186	54		68				53			9		370	83.3	14.3	2.4
No.CAR	371	37	166		25	64		155			1		819	73.1	26.8	.1
OKLA	262	67				7		32					368	89.4	10.6	.0
PITT	180	27		117	79	27	11	110			56		607	66.4	24.4	9.2
PR	179	116		22	79						8		404	98.0	0.0	2.0
S.DIEGO	241												241	100.0	0.0	.0
So.CAR	115	17	77	23	2	21		28	16		5		304	77.0	21.4	1.6
So.FLA	165		12					4			112		293	60.4	1.4	38.2
TEXAS	284	43				77		94			34		532	61.5	32.1	6.4
TULANE	262		30	40		28	28			47	25		460	82.4	12.2	5.4
WASH	154	92		51				78		7	46		428	70.8	18.5	10.7
YALE	205					21		49		10	1		286	75.2	24.5	.3
TOTAL	5201	1028	337	440	290	667	318	1242	91	203	940	4	10761	69.7%	21.6%	8.7%

/1 Includes joint degrees classified according to school of public health degree.

TABLE 3-5
U.S. SCHOOLS OF PUBLIC HEALTH
JOINT DEGREE BY AREA, SEX, & RACE/ETHNICITY /1
FALL 1987

AREA	SUBAREA	JOINT DEGREE	MALE	FEMALE	TOTAL
BIOSTAT		MS-MA	6.0	8.0	14.0
EPID		MD-MPH	3.0	4.0	7.0
EPID		MD-PhD	1.0	.0	1.0
EPID		MPH-MA	1.0	1.0	2.0
EPID		MPH-MS	1.0	.0	1.0
HSA		MD-MPH	4.0	2.0	6.0
HSA		MHA-MBA	2.0	.0	2.0
HSA		MPH-DDS	.0	1.0	1.0
HSA		MPH-MBA	13.0	28.0	41.0
HSA		MPH-MCRP	1.0	2.0	3.0
HSA		MPH-MPP	3.0	13.0	16.0
HSA		MPH-MPPM	.0	2.0	2.0
HSA		MPH-MSN	2.0	3.0	5.0
HSA		MPH-MSW	.0	2.0	2.0
HSA		MPH-PhD	.0	1.0	1.0
PHP&PM	MCH	MPH-MSW	.0	3.0	3.0
PHP&PM	MCH	MPH-PhD	.0	2.0	2.0
H.EDUC/BS		MPH-MSW	1.0	4.0	5.0
ENV.SC		DEnv-Ph.D	2.0	.0	2.0
ENV.SC		MPH-JD	.0	1.0	1.0
ENV.SC		MPH-MPPM	.0	1.0	1.0
BIOMED		MS-MA	2.0	.0	2.0
OTHER	GENETICS	MS-MA	.0	15.0	15.0
OTHER	POP/FAM.HLTH	MPH-MA	.0	2.0	2.0
NONSPEC		MD-MPH	27.0	13.0	40.0
NONSPEC		MPH-MBA	15.0	6.0	21.0
NONSPEC		MPH-MPA	.0	1.0	1.0
NONSPEC		MPH-OD	1.0	1.0	2.0
NONSPEC		MPH-PhD	2.0	.0	2.0
Total			87.0	116.0	203.0

JOINT DEGREE	ASIAN	BLACK	HISPANIC	AMERIND	TOTAL
DEnv-Ph.D	.0	.0	.0	.0	1.0
MD-MPH	6.0	5.0	4.0	.0	38.0
MD-PhD	.0	.0	.0	.0	1.0
MHA-MBA	.0	.0	.0	.0	2.0
MPH-DDS	.0	.0	.0	.0	1.0
MPH-JD	.0	.0	.0	.0	1.0
MPH-MA	.0	.0	.0	.0	4.0
MPH-MBA	2.0	6.0	2.0	1.0	48.0
MPH-MCRP	.0	.0	2.0	1.0	.0
MPH-MPA	.0	.0	.0	.0	1.0
MPH-MPP	.0	1.0	.0	.0	15.0
MPH-MPPM	.0	.0	.0	.0	3.0
MPH-MS	.0	.0	.0	.0	1.0
MPH-MSN	1.0	.0	.0	.0	4.0
MPH-MSW	.0	.0	1.0	.0	7.0
MPH-OD	.0	.0	.0	.0	2.0
MPH-PhD	.0	.0	.0	.0	5.0
MS-MA	2.0	1.0	.0	.0	22.0
Total	11.0	13.0	9.0	2.0	156.0

/1 Racial/ethnic breakdown excludes 2 students of unknown race/ethnicity and 10 foreign students.

TABLE 3-6
U.S. SCHOOLS OF PUBLIC HEALTH
JOINT DEGREES BY SCHOOL & CITIZENSHIP
FALL 1987

SCHOOL	JOINT DEGREE	TOTAL
ALA	MPH-MBA	21.0
ALA	MPH-MPA	1.0
ALA	MPH-OD	2.0
ALA	MPH-PhD	4.0
CAL-BERK	MD-MPH	7.0
CAL-BERK	MPH-MBA	25.0
CAL-BERK	MPH-MCRP	3.0
CAL-BERK	MPH-MPP	16.0
CAL-BERK	MPH-MS	1.0
CAL-BERK	MPH-MSW	8.0
CAL-BERK	MS-MA	31.0
CAL-UCLA	DEnv-Ph.D	2.0
CAL-UCLA	MPH-DDS	1.0
CAL-UCLA	MPH-MA	4.0
CAL-UCLA	MPH-MBA	13.0
TULANE	MD-MPH	40.0
TULANE	MHA-MBA	2.0
TULANE	MPH-JD	1.0
TULANE	MPH-MBA	3.0
TULANE	MPH-MSW	1.0
WASH	MD-MPH	4.0
WASH	MD-PhD	1.0
WASH	MPH-MSW	1.0
WASH	MPH-PhD	1.0
YALE	MD-MPH	2.0
YALE	MPH-MPPM	3.0
YALE	MPH-MSN	5.0
Total		203.0

JOINT DEGREE	U.S.	FOREIGN	TOTAL
DEnv-Ph.D	2.0	.0	2.0
MD-MPH	53.0	.0	53.0
MD-PhD	1.0	.0	1.0
MHA-MBA	2.0	.0	2.0
MPH-DDS	1.0	.0	1.0
MPH-JD	1.0	.0	1.0
MPH-MA	4.0	.0	4.0
MPH-MBA	60.0	2.0	62.0
MPH-MCRP	3.0	.0	3.0
MPH-MPA	1.0	.0	1.0
MPH-MPP	16.0	.0	16.0
MPH-MPPM	3.0	.0	3.0
MPH-MS	1.0	.0	1.0
MPH-MSN	5.0	.0	5.0
MPH-MSW	8.0	2.0	10.0
MPH-OD	2.0	.0	2.0
MPH-PhD	5.0	.0	5.0
MS-MA	25.0	6.0	31.0
Total	193.0	10.0	203.0

TABLE 3-7
U.S. SCHOOLS OF PUBLIC HEALTH
STUDENTS BY AREA, SEX, CITIZENSHIP & RACE/ETHNICITY /1
FALL 1987

AREA	MALE		FEMALE		U.S.		FOREIGN	
BIOSTAT	254.0	6.8 %	272.0	4.8 %	361.0	4.6 %	165.0	10.8 %
EPID	600.5	16.0	842.0	15.0	1163.5	14.9	279.0	18.3
HSA	963.5	25.7	1675.0	29.9	2415.5	30.8	223.0	14.6
PHP&PM	138.0	3.7	454.0	8.1	512.0	6.5	80.0	5.2
H.EDUC/BS	212.0	5.7	741.5	13.2	879.0	11.2	75.5	4.9
ENV.SC	661.5	17.7	537.0	9.6	1050.5	13.4	142.0	9.3
OS&H	142.0	3.8	82.0	1.5	207.0	2.6	17.0	1.1
NUTR	53.5	1.4	230.0	4.1	233.0	3.0	50.5	3.3
BIOMED	125.0	3.3	142.0	2.5	198.0	2.5	69.0	4.5
OTHER	337.0	9.0	450.5	8.0	517.5	6.6	281.0	18.4
NONSPEC	255.0	6.8	184.0	3.3	293.0	3.7	146.0	9.6
NONDEGREE	353.0	---	511.0	---	728.0	---	136.0	---
UNKNOWN	0.0	---	4.0	---	4.0	---	0.0	---
TOTAL	4095.0	100.0 %	6125.0	100.0 %	8562.0	100.0 %	1664.0	100.0 %

					HISPANIC			
AREA	ASIAN		BLACK		PUERTO RICO		MAINLAND	
BIOSTAT	34.0	8.3 %	12.0	2.7 %	0.0	.0 %	7.0	2.7 %
EPID	77.0	18.7	71.0	15.7	7.0	2.6	41.0	15.9
HSA	91.0	22.1	167.5	37.1	45.0	16.4	75.0	29.1
PHP&PM	21.0	5.1	41.5	9.2	6.0	2.2	18.0	7.0
H.EDUC/BS	43.5	10.6	45.0	10.0	57.0	20.8	30.0	11.6
ENV.SC	40.0	9.7	39.0	8.6	75.0	27.4	24.0	9.3
OS&H	7.0	1.7	11.0	2.4	0.0	.0	6.0	2.3
NUTR	19.5	4.7	11.0	2.4	22.0	8.0	7.0	2.7
BIOMED	22.0	5.4	5.0	1.1	0.0	.0	0.0	.0
OTHER	40.0	9.7	26.0	5.8	17.0	6.2	35.0	13.6
NONSPEC	16.0	3.9	23.0	5.1	45.0	16.4	15.0	5.8
NONDEGREE	46.0	---	71.0	---	8.0	---	29.0	---
UNKNOWN	0.0	---	0.0	---	0.0	---	0.0	---
TOTAL	457.0	100.0 %	523.0	100.0 %	282.0	100.0 %	287.0	100.0 %

AREA	AMERIND		WHITE	
BIOSTAT	1.0	1.3 %	306.0	4.9 %
EPID	5.0	6.3	955.5	15.2
HSA	46.0	58.2	1970.0	31.3
PHP&PM	1.0	1.3	416.5	6.6
H.EDUC/BS	18.0	22.8	675.5	10.7
ENV.SC	3.0	3.8	857.5	13.6
OS&H	1.0	1.3	182.0	2.9
NUTR	2.0	2.5	171.5	2.7
BIOMED	0.0	.0	171.0	2.7
OTHER	2.0	2.5	392.5	6.2
NONSPEC	0.0	.0	194.0	3.1
NONDEGREE	9.0	---	562.0	---
UNKNOWN	0.0	---	4.0	---
TOTAL	88.0	100.0 %	6858.0	100.0 %

/1 Excludes students of unknown sex, citizenship, and race/ethnicity.

TABLE 3-8
U.S. SCHOOLS OF PUBLIC HEALTH
STUDENTS BY SCHOOL AND AREA
FALL 1987

SCHOOL	BIOSTAT		EPID		HSA		PHP&PM		H.EDUC/BS		ENV.SC		OS&H	
ALA		.0 %	64.0	23.9 %	8.0	3.0 %	14.0	5.2 %	12.0	4.5 %	16.0	6.0 %	27.0	10.1 %
BOSTON		.0	84.5	27.0	158.0	50.5		.0	38.0	12.1	32.5	10.4		.0
CAL-BERK	30.0	[illegible]	66.0	13.7	103.0	21.4	33.0	6.8	69.0	14.3	56.0	11.6		.0
CAL-UCLA	60.0	[illegible]	116.0	18.2	112.0	17.5		.0	86.0	13.5	112.0	17.5		.0
COLUMBIA	24.0	5.5	66.0	15.0	139.0	31.6	6.0	1.4	24.0	5.5	49.0	11.1		.0
HARVARD	50.0	11.1	58.0	12.9	123.0	27.3	25.0	5.5	15.0	3.3	27.0	6.0	28.0	6.2
HAWAII	9.0	3.9	28.0	12.0	58.0	24.9	26.0	11.2	45.0	19.3	22.0	9.4		.0
ILL		.0	38.0	20.2	49.0	26.1	71.0	37.8		.0	30.0	16.0		.0
JHU	23.0	3.0	133.0	17.2	199.0	25.7	72.0	9.3		.0	105.0	13.5		.0
L.LINDA	3.0	.8	9.0	2.4	65.0	17.6	27.0	7.3	173.5	46.9	4.0	1.1		.0
MASS	7.0	4.2	45.0	27.1	45.0	27.1		.0	32.0	19.3	32.0	19.3		.0
MICH	70.0	10.5	81.0	12.2	190.5	28.7	19.0	2.9	62.0	9.3	100.0	15.1	70.0	10.5
MINN	19.0	5.3	52.0	14.4	124.0	34.3	50.0	13.9	34.0	9.4	66.0	18.3		.0
No.CAR	90.0	11.0	104.0	12.7	236.0	28.9	83.0	10.1	82.0	10.0	132.0	16.1		.0
OKLA	17.0	4.6	48.0	13.0	187.0	50.8		.0	48.0	13.0	68.0	18.5		.0
PITT	33.0	6.0	119.0	21.6	232.0	42.1		.0		.0	77.0	14.0	15.0	2.7
PR		.0	10.0	2.5	45.0	11.4	7.0	1.8	57.0	14.4	76.0	19.2		.0
S.DIEGO		.0	37.0	15.4	61.0	25.3	37.0	15.4	65.0	27.0	41.0	17.0		.0
So.CAR	11.0	3.7	63.0	21.1	90.0	30.1		.0	79.0	26.4	46.0	15.4		.0
So.FLA		.0	25.0	13.8	76.0	42.0	25.0	13.8	25.0	13.8	18.0	9.9	12.0	6.6
TEXAS	25.0	5.0	35.0	7.0	75.0	15.1	67.0	13.5	15.0	3.0	54.0	10.8	44.0	8.8
TULANE	13.0	3.0	38.0	8.7	101.0	23.2	24.0	5.5	17.0	3.9	35.0	8.0		.0
WASH	58.0	15.2	87.0	22.8	149.0	39.0	12.0	3.1		.0	28.0	7.3	28.0	7.3
YALE	8.0	2.8	102.0	35.8	152.0	53.3		.0		.0	21.0	7.4		.0
TOTAL	550.0	5.6 %	1508.5	15.4 %	2777.5	28.3 %	598.0	6.1 %	978.5	10.0 %	1247.5	12.7 %	224.0	2.3 %

SCHOOL	NUTR		BIOMED		OTHER		NONSPEC		NONDEGREE	UNKNOWN	TOTAL
ALA	3.0	1.1 %		.0 %	53.0	19.8 %	71.0	26.5 %	50.0	4.0	322.0
BOSTON		.0		.0		.0		.0			313.0
CAL-BERK	30.0	6.2	51.0	10.6	27.0	5.6	17.0	3.5			482.0
CAL-UCLA	56.0	8.8		.0	97.0	15.2		.0	12.0		651.0
COLUMBIA		.0		.0	74.0	16.8	58.0	13.2	76.0	13.0	529.0
HARVARD	12.0	2.7	32.0	7.1	31.0	6.9	50.0	11.1	18.0		469.0
HAWAII	20.0	8.6		.0	25.0	10.7		.0	16.0		249.0
ILL		.0		.0		.0		.0	129.0		317.0
JHU		.0	96.0	12.4	147.0	19.0		.0	226.0		1001.0
L.LINDA	24.5	6.6		.0	62.0	16.8	2.0	.5	89.0		459.0
MASS	5.0	3.0		.0		.0		.0			166.0
MICH	18.0	2.7		.0	53.5	8.1		.0	27.0		691.0
MINN	16.0	4.4		.0		.0		.0	9.0		370.0
No.CAR	56.0	6.8	35.0	4.3		.0		.0	1.0		819.0
OKLA		.0		.0		.0		.0			368.0
PITT		.0	32.0	5.8	43.0	7.8		.0	56.0		607.0
PR	22.0	5.6		.0	17.0	4.3	162.0	40.9	8.0		404.0
S.DIEGO		.0		.0		.0		.0			241.0
So.CAR		.0		.0		.0	10.0	3.3	5.0		304.0
So.FLA		.0		.0		.0		.0	112.0		293.0
TEXAS		.0		.0	124.0	24.9	59.0	11.8	34.0		532.0
TULANE	21.0	4.8	6.0	1.4	114.0	26.2	66.0	15.2	25.0		460.0
WASH		.0	15.0	3.9	5.0	1.3		.0	46.0		428.0
YALE		.0		.0		.0	2.0	.7	1.0		286.0
TOTAL	283.5	2.9 %	267.0	2.7 %	872.5	8.9 %	497.0	5.1 %	940.0	17.0	10761.0

TABLE 3-9
U.S. SCHOOLS OF PUBLIC HEALTH
STUDENTS BY AREA AND DEGREE OBJECTIVE /1
FALL 1987

DEGREE OBJECTIVE	BIOSTAT	EPID	HSA	PHP&PM	H.EDUC/BS	ENV.SC
MPH	75.0	775.5	1512.5	416.0	675.5	401.5
MS	195.0	115.0	209.0	16.0	52.0	256.0
MSPH	18.0	54.0	88.0	2.0	9.0	116.0
MHA/MHSA			440.0			
OTHER MAST.	10.0	24.0	25.0	17.0	59.0	90.0
DrPH	32.0	87.0	184.0	77.0	106.0	38.0
ScD	32.0	56.0	92.0	28.0	5.0	25.0
PhD	174.0	386.0	132.0	10.0	67.0	269.0
OTHER DOCT.			16.0	27.0		48.0
JOINT DEG.	14.0	11.0	79.0	5.0	5.0	4.0
TOTAL	550.0	1508.5	2777.5	598.0	978.5	1247.5
% MASTERS /2	56.7	64.9	84.7	76.3	81.8	69.4
% DOCT. /2	43.3	35.1	15.3	23.7	18.2	30.6

DEGREE OBJECTIVE	OS&H	NUTR	BIOMED	OTHER	NONSPEC	UNKNOWN
MPH	101.0	179.5	36.0	588.5	427.0	13.0
MS	58.0	40.0	19.0	68.0		
MSPH	18.0	2.0	14.0	16.0		
MHA/MHSA						
OTHER MAST.	5.0	22.0	21.0	17.0		
DrPH	11.0	21.0	18.0	89.0	4.0	
ScD	5.0	9.0	45.0	21.0		
PhD	26.0	10.0	112.0	56.0		
OTHER DOCT.						
JOINT DEG.			2.0	17.0	66.0	
UNKNOWN						4.0
TOTAL	224.0	283.5	267.0	872.5	497.0	17.0
% MASTERS /2	81.3	85.9	34.5	81.0	99.2	100.0
% DOCT. /2	18.7	14.1	65.5	19.0	.8	---

/1 Excludes nondegree students.

/2 Includes joint degrees classified according to school of public health degree.

TABLE 3-10
U.S. SCHOOLS OF PUBLIC HEALTH
STUDENT STATUS BY DEGREE OBJECTIVE AND AREA
FALL 1987

AREA	F-T		P-T		OTHER		TOTAL
MPH	2738.0	52.6 %	1821.0	35.0 %	642.0	12.3 %	5201.0
MS	680.0	66.1	276.0	26.8	72.0	7.0	1028.0
MSPH	225.0	66.8	112.0	33.2	0.0	.0	337.0
MHA/MHSA	295.0	67.0	129.0	29.3	16.0	3.6	440.0
OTHER.MAST	179.0	61.7	111.0	38.3	0.0	.0	290.0
DrPH	429.0	64.3	224.0	33.6	14.0	2.1	667.0
ScD	230.0	72.3	75.0	23.6	13.0	4.1	318.0
PhD	852.0	68.6	390.0	31.4	0.0	.0	1242.0
OTHER.DOC	68.0	74.7	23.0	25.3	0.0	.0	91.0
JOINT.DEG	172.0	84.7	31.0	15.3	0.0	.0	203.0
NONDEGREE	230.0	24.5	653.0	69.5	57.0	6.1	940.0
UNKNOWN	0.0	.0	4.0	100.0	0.0	.0	4.0
TOTAL	6098.0	56.7 %	3849.0	35.8 %	814.0	7.6 %	10761.0

AREA	F-T		P-T		OTHER		TOTAL
BIOSTAT	362.0	65.8 %	163.0	29.6 %	25.0	4.5 %	550.0
EPID	972.0	64.4	524.5	34.8	12.0	.8	1508.5
HSA	1453.5	52.3	1119.0	40.3	205.0	7.4	2777.5
PHP&PM	383.5	64.1	212.5	35.5	2.0	.3	598.0
H.EDUC/BS	569.5	58.2	308.0	31.5	101.0	10.3	978.5
ENV.SC	772.5	61.9	424.0	34.0	51.0	4.1	1247.5
OS&H	133.0	59.4	59.0	26.3	32.0	14.3	224.0
NUTR	221.5	78.1	60.0	21.2	2.0	.7	283.5
BIOMED	223.0	83.5	42.0	15.7	2.0	.7	267.0
OTHER	604.5	69.3	194.0	22.2	74.0	8.5	872.5
NONSPEC	161.0	32.4	85.0	17.1	251.0	50.5	497.0
NONDEGREE	230.0	24.5	653.0	69.5	57.0	6.1	940.0
UNKNOWN	12.0	70.6	5.0	29.4	0.0	.0	17.0
TOTAL	6098	56.7 %	3849	35.8 %	814	7.6 %	10761

TABLE 3-11
U.S. SCHOOLS OF PUBLIC HEALTH
STUDENT STATUS BY SCHOOL
FALL 1987

SCHOOL	F-T		P-T		OTHER		TOTAL
ALA	116	36.0 %	158	49.1 %	48	14.9 %	322
BOSTON	78	24.9	235	75.1	0	.0	313
CAL-BERK	482	100.0	0	.0	0	.0	482
CAL-UCLA	616	94.6	35	5.4	0	.0	651
COLUMBIA	212	40.1	317	59.9	0	.0	529
HARVARD	373	79.5	76	16.2	20	4.3	469
HAWAII	168	67.5	81	32.5	0	.0	249
ILL	119	37.5	198	62.5	0	.0	317
JHU	738	73.7	235	23.5	28	2.8	1001
L.LINDA	102	22.2	127	27.7	230	50.1	459
MASS	85	51.2	81	48.8	0	.0	166
MICH	452	65.4	145	21.0	94	13.6	691
MINN	219	59.2	151	40.8	0	.0	370
No.CAR	501	61.2	318	38.8	0	.0	819
OKLA	115	31.3	197	53.5	56	15.2	368
PITT	229	37.7	378	62.3	0	.0	607
PR	117	29.0	105	26.0	182	45.0	404
S.DIEGO	123	51.0	118	49.0	0	.0	241
So.CAR	123	40.5	181	59.5	0	.0	304
So.FLA	58	19.8	235	80.2	0	.0	293
TEXAS	193	36.3	280	52.6	59	11.1	532
TULANE	340	73.9	94	20.4	26	5.7	460
WASH	305	71.3	52	12.1	71	16.6	428
YALE	234	81.8	52	18.2	0	.0	286
TOTAL	6098	56.7 %	3849	35.8 %	814	7.6 %	10761

B. Student Trends 1974-75 through 1987-88

In 1958 there were 11 schools of public health in the U.S. with a total enrollment of less than 1,200 students. The typical student of that time was a White male, about 33 years old, with a medical background, who was enrolled full-time in a one-year master's degree program and was receiving financial assistance from a government agency. Over the next twenty years, the student body in the U.S. schools of public health changed significantly. Total enrollment grew at a rapid rate, and there was an influx of younger students, including a large number of women, with little prior health experience and only a prior bachelor's degree. Programmatic changes in the schools which reflected the changing student population included the lengthening of the master's degree programs from one to two years and the expansion of doctoral degree programs.

In the early 1980s, the rapid growth in enrollments stopped, and for several years total enrollment remained at the same level -- about 9,000 students. Since 1985, however, total enrollment in the schools has been on the rise, and as noted below, the student body appears to be evolving once again toward older, more experienced students.

In the Fall of 1987, there were 24 schools of public health with a total enrollment of over 10,000 students. The proportion of women continued to increase, and 60% of the total students (64% for U.S. citizens) in Fall 1987 were female. In 1958, less than 29% of the students were women.

Foreign students, who represented nearly one-quarter of the student population in the late 1950s, have been enrolling in increasing numbers in recent years. While the total number of foreign students has increased steadily since 1974 (when the ASPH database began), the large increase in U.S. enrollments tended to dwarf the foreign student gains. In 1977, foreign students represented less than 10% of the total student population. In the Fall of 1981, however, the number of foreign students nearly doubled -- from 730 reported in Fall 1980 to 1,299 -- and the number of foreign students has been increasing at a rapid rate throughout the 1980s. In the Fall of 1987, there were 1,664 foreign students enrolled in the 24 schools, and they constituted over 16% of the total student body. The data on new enrollments, which is frequently used as an indication of future trends, reveals that foreign students constituted almost 19% of the new students in the Fall of 1987.

Data on minority students has been collected by ASPH since 1974; there is no information on race in the 1960s data. The number and proportion of minority students rose from 1974 until 1980 when there were 1,102 minority students (1,059 without Puerto Rico), and the minority students represented 18.4% (17.8% without Puerto Rico) of U.S. students. The overall number of minority students has been falling slightly, although the increase in the student enrollment at Puerto Rico tends to confuse the data somewhat.

Since 1985, however, there has been some increase in the number and proportion of minority students. In the Fall of 1987, minority students constituted over 19% (16% excluding Puerto Rico) of total U.S. students, and among new enrollments minority students represented 22% (19% excluding Puerto Rico) of the total.

With regard to degree objective, there has been very little change since 1974. About 70% of the students pursue master's degrees and about 20% pursue doctoral degrees, with the remaining students enrolled as nondegree students. Nondegree students represented almost 9% of the total students in the Fall of 1987.

As described in the "notes" section at the beginning of this report (page iv), there is some difficulty with the data on areas of specialization, thus making trends analysis difficult. It would appear that the proportion of students in the various areas has remained quite stable over the years. The great majority of students are in health administration. Biostatistics/epidemiology and environmental/occupational health are also areas that have a large number of students.

The most significant change that has occurred in recent years is the increasing proportion of part-time students plus the growth (and increasing number of students) in non-traditional degree programs offered by the schools of public health. Part-time students constituted over one-third (almost 36%) of the total students in Fall 1987. At the same time, the number of non-traditional degree programs offered by the schools has increased, and the schools reported over 800 students enrolled in these programs during the Fall of 1987.

The student population in the U.S. schools of public health appears to be evolving once again toward older, more experienced students. Data from a survey of 1986 graduates indicated a median age of 31-32 years, and revealed that 75% of the graduates had some prior health-related experience, with a median of five years of experience for this group. One aspect of this trend is the growing number of students who are currently employed in the health field.

There is every indication that the number of part-time students and students who need "non-traditional" educational programs will continue to grow in the future, and the schools are developing new programs and making changes in existing programs to reflect this trend. Three schools of public health now schedule the majority of their courses in the late afternoon or evening, and a large number of schools have developed or are developing non-traditional degree programs for working students.

U.S. SCHOOLS OF PUBLIC HEALTH
CHARACTERISTICS OF STUDENTS
(Fall Semester)

Students by Sex

YEAR	MALES		FEMALES		UNKNOWN	TOTAL
1958 /1	886	71.3 %	356	28.7 %	---	1242
1974 /2	2673	53.7	2307	46.3	841	5821
1975	3163	52.5	2857	47.5	441	6461
1976	3181	51.5	3001	48.5	433	6615
1977	3233	50.3	3193	49.7	415	6841
1978	3367	47.6	3704	52.4	651	7722
1979	3397	46.2	3949	53.8	869	8215
1980	3023	44.8	3728	55.2	1735	8486
1981	3865	44.6	4800	55.4	382	9047
1982	3794	42.7	5101	57.3	1	8896
1983	3690	41.7	5152	58.3	95	8937
1984	3627	40.5	5329	59.5	1	8957
1985	3769	39.7	5725	60.3	---	9494
1986	4071	40.3	6029	59.7	4	10104
1987	4095	40.1	6125	59.9	541	10761

Students by Citizenship

YEAR	U.S.		FOREIGN		UNKNOWN	TOTAL
1958 /1	950	76.5 %	292	23.5 %	---	1242
1974 /2	5072	89.4	600	10.6	149	5821
1975	5415	90.3	582	9.7	464	6461
1976	5597	90.3	600	9.7	418	6615
1977	5804	90.2	634	9.8	403	6841
1978	6340	90.0	707	10.0	675	7722
1979	6532	89.3	782	10.7	901	8215
1980	6047	89.2	730	10.8	1709	8486
1981	7366	85.0	1299	15.0	382	9047
1982	7615	86.5	1190	13.5	91	8896
1983	7617	86.3	1212	13.7	108	8937
1984	7641	86.6	1180	13.4	136	8957
1985	7942	84.9	1410	15.1	142	9494
1986	8558	84.7	1545	15.3	1	10104
1987	8562	83.7	1664	16.3	535	10761

/1 Data for 1958 is from Dr. James Troupin and includes two Canadian schools.

/2 Puerto Rico did not report in 1974 and only reported total enrollment in 1978 and 1979.

U.S. SCHOOLS OF PUBLIC HEALTH
CHARACTERISTICS OF STUDENTS (Continued)

U.S. Students by Race/Ethnicity

					HISPANIC									
YEAR	ASIAN		BLACK		PUERTO RICO		MAINLAND		AMERIND		WHITE		UNKNOWN	TOTAL
1974	156	3.5 %	351	7.8 %	N/A	N/A	76	1.7 %	49	1.1 %	3883	86.0 %	557	5072
1975	218	4.1	348	6.6	197	3.7 %	112	2.1	59	1.1	4334	82.3	147	5415
1976	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5597	5597
1977	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5804	5804
1978	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6340	6340
1979	408	6.3	415	6.4	N/A	N/A	173	2.7	68	1.0	5421	83.6	47	6532
1980	393	6.6	379	6.3	43	.7	199	3.3	88	1.5	4892	81.6	53	6047
1981	335	5.2	376	5.8	130	2.0	141	2.2	82	1.3	5440	83.6	862	7366
1982	368	5.3	403	5.8	183	2.6	176	2.5	70	1.0	5805	82.9	610	7615
1983	313	4.5	357	5.2	217	3.1	171	2.5	59	.9	5794	83.8	706	7617
1984	302	4.3	368	5.2	223	3.2	169	2.4	54	.8	5900	84.1	625	7641
1985	304	4.2	433	6.0	277	3.8	175	2.4	63	.9	5992	82.7	698	7942
1986	378	4.7	484	6.1	289	3.6	235	2.9	68	.9	6539	81.8	565	8558
1987	457	5.4	523	6.2	282	3.3	287	3.4	88	1.0	6858	80.7	67	8562

Students by Status

YEAR	FULL-TIME		PART-TIME		OTHER		UNKNOWN	TOTAL
1974	3331	73.7 %	1188	26.3 %	N/A	N/A	1302	5821
1975	4562	76.4	1407	23.6	N/A	N/A	492	6461
1976	4760	76.9	1427	23.1	N/A	N/A	428	6615
1977	4907	78.4	1351	21.6	N/A	N/A	583	6841
1978	5330	79.5	1372	20.5	N/A	N/A	1020	7722
1979	5895	80.9	1388	19.1	N/A	N/A	932	8215
1980	4782	77.8	1365	22.2	N/A	N/A	2339	8486
1981	5070	69.2	2254	30.8	N/A	N/A	1723	9047
1982	5948	66.9	2948	33.1	N/A	N/A	0	8896
1983	5574	65.8	2468	29.1	433	5.1 %	462	8937
1984	5784	64.6	2823	31.5	350	3.9	0	8957
1985	5838	61.5	3016	31.8	640	6.7	0	9494
1986	5937	58.8	3553	35.2	614	6.1	0	10104
1987	6098	56.7	3849	35.8	814	7.6	0	10761

U.S. SCHOOLS OF PUBLIC HEALTH
CHARACTERISTICS OF STUDENTS (Continued)

Students by Degree Objective

YEAR	BACHELOR		MPH		MS		MSPH		MHA/MHSA		OTHER MAST.		DrPH	
1974	130	2.6%	2437	48.7%	N/A	N/A	294	5.9%	N/A	N/A	853	17.1%	318	6.4%
1975	212	3.5	2838	47.5	N/A	N/A	618	10.3	N/A	N/A	848	14.2	382	6.4
1976	111	1.8	2986	48.2	N/A	N/A	653	10.5	N/A	N/A	862	13.9	394	6.4
1977	55	.9	3152	49.3	609	9.5%	373	5.8	292	4.6%	413	6.5	375	5.9
1978	56	.8	3479	49.7	633	9.0	519	7.4	255	3.6	404	5.8	431	6.2
1979 /1	126	1.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5385	73.5	N/A	N/A
1980	82	1.2	3176	47.1	473	7.0	534	7.9	394	5.8	357	5.3	442	6.6
1981 /1	42	.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6378	73.3	N/A	N/A
1982	N/A	N/A	4293	48.3	758	8.5	594	6.7	N/A	N/A	609	6.9	549	6.2
1983	N/A	N/A	4153	46.5	755	8.4	550	6.2	389	4.4	365	4.1	567	6.3
1984	N/A	N/A	4300	48.0	755	8.4	411	4.6	404	4.5	339	3.8	594	6.6
1985	N/A	N/A	4461	47.0	911	9.6	311	3.3	422	4.4	344	3.6	612	6.4
1986	N/A	N/A	4874	48.2	995	9.8	321	3.2	438	4.3	281	2.8	684	6.8
1987	N/A	N/A	5201	48.3	1028	9.6	337	3.1	440	4.1	290	2.7	667	6.2

YEAR	SeD		PhD		OTHER DOCT.		JOINT DEGREE /2		NONDEGREE		UNKNOWN	TOTAL
1974	N/A	N/A	447	8.9%	184	3.7%	N/A	N/A	338	6.8%	820	5821
1975	N/A	N/A	578	9.7	219	3.7	N/A	N/A	279	4.7	487	6461
1976	N/A	N/A	623	10.1	234	3.8	75	1.2%	253	4.1	424	6615
1977	209	3.3%	611	9.5	70	1.1	25	.4	214	3.3	443	6841
1978	229	3.3	669	9.6	69	1.0	23	.3	231	3.3	724	7722
1979 /1	N/A	N/A	N/A	N/A	1552	21.2	N/A	N/A	261	3.6	891	8215
1980	170	2.5	771	11.4	49	.7	27	.4	265	3.9	1746	8486
1981 /1	N/A	N/A	N/A	N/A	1803	20.7	N/A	N/A	479	5.5	345	9047
1982	269	3.0	978	11.0	19	.2	69	.8	752	8.5	6	8896
1983	257	2.9	1002	11.2	50	.6	154	1.7	695	7.8	0	8937
1984	264	2.9	994	11.1	48	.5	165	1.8	683	7.6	0	8957
1985	261	2.7	1057	11.1	80	.8	121	1.3	914	9.6	0	9494
1986	277	2.7	1105	10.9	87	.9	190	1.9	852	8.4	0	10104
1987	318	3.0	1242	11.5	91	.8	203	1.9	940	8.7	4	10761

/1 No breakdown of master's and doctoral degrees.
/2 Until 1983 data is only for MD-MPH joint degrees.

U.S. SCHOOLS OF PUBLIC HEALTH
CHARACTERISTICS OF STUDENTS (Continued)

Students by Area of Specialization

YEAR	BIOSTAT		EPID		HSA		PHP&PM		H.EDUC/BS		ENV.SC		OS&H	
1974	339.0	7.3%	422.0	9.1%	1380.0	29.8%	416.0	9.0%	181.0	3.9%	653.0	14.1%	114.0	2.5%
1975	478.0	8.3	873.0	15.1	1894.0	32.8	557.0	9.6	341.0	5.9	795.0	13.8	157.0	2.7
1976	462.0	7.5	968.0	15.7	1788.0	29.0	573.0	9.3	449.0	7.3	762.0	12.3	154.0	2.5
1977	440.0	6.9	759.0	11.9	1740.0	27.2	682.0	10.7	421.0	6.6	764.0	12.0	228.0	3.6
1978	491.0	7.1	880.0	12.8	1809.0	26.3	744.0	10.8	489.0	7.1	821.0	11.9	269.0	3.9
1979	495.0	6.8	940.0	13.0	1923.0	26.6	651.0	9.0	495.0	6.8	900.0	12.4	310.0	4.3
1980	472.0	7.1	882.0	13.2	1656.0	24.9	591.0	8.9	440.0	6.6	584.0	8.8	437.0	6.6
1981	529.0	6.3	1051.0	12.5	1731.0	20.6	921.0	10.9	556.0	6.6	956.0	11.4	398.0	4.7
1982	559.0	6.4	1070.0	12.2	2107.0	24.0	644.5	7.3	590.5	6.7	1121.5	12.8	313.5	3.6
1983	489.5	6.0	1171.5	14.3	2187.5	26.6	593.0	7.2	730.5	8.9	1233.0	15.0	136.5	1.7
1984	468.5	5.7	1130.5	13.7	2356.0	28.5	596.5	7.2	836.0	10.1	1109.5	13.4	218.0	2.6
1985	474.5	5.5	1236.5	14.4	2431.0	28.4	595.0	6.9	856.0	10.0	1116.0	13.0	239.5	2.8
1986	509.0	5.5	1406.5	15.2	2500.0	27.0	710.0	7.7	999.5	10.8	1146.5	12.4	211.5	2.3
1987	550.0	5.6	1508.5	15.4	2777.5	28.3	598.0	6.1	978.5	10.0	1247.5	12.7	224.0	2.3

YEAR	NUTR		BIOMED		OTHER		NONSPEC		NONDEGREE	UNKNOWN	TOTAL
1974	201.0	4.3%	N/A	N/A	927.0	20.0%	N/A	N/A	N/A	1188	5821
1975	245.0	4.2	N/A	N/A	440.0	7.6	N/A	N/A	N/A	681	6461
1976	328.0	5.3	N/A	N/A	690.0	11.2	N/A	N/A	N/A	441	6615
1977	388.0	6.1	273.0	4.3%	693.0	10.8	N/A	N/A	N/A	453	6841
1978	386.0	5.6	256.0	3.7	731.0	10.6	N/A	N/A	N/A	846	7722
1979	377.0	5.2	316.0	4.4	827.0	11.4	N/A	N/A	N/A	981	8215
1980	352.0	5.3	229.0	3.4	1018.0	15.3	N/A	N/A	N/A	1825	8486
1981	333.0	4.0	373.0	4.4	897.0	10.7	670.0	8.0%	N/A	632	9047
1982	373.0	4.3	348.0	4.0	859.0	9.8	783.0	8.9	N/A	127	8896
1983	276.0	3.4	258.0	3.1	781.5	9.5	362.0	4.4	695	23	8937
1984	300.5	3.6	273.0	3.3	684.5	8.3	289.0	3.5	683	12	8957
1985	282.5	3.3	275.0	3.2	720.0	8.4	339.0	4.0	914	15	9494
1986	292.5	3.2	247.0	2.7	779.5	8.4	446.0	4.8	852	4	10104
1987	283.5	2.9	267.0	2.7	872.5	8.9	497.0	5.1	940	17	10761

Beginning in 1982 students with dual specializations counted as .5 in each area.
Until 1983 nondegree students were recorded under their area of study or nonspecialized.

TOTAL ENROLLMENTS
U.S. SCHOOLS OF PUBLIC HEALTH
(Fall Semester)

SCHOOL	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988 (Prelim)
ALA	---	---	---	---	90	129	147	165	126	135	138	248	277	322	366
BOSTON	---	---	---	---	---	---	---	280	270	282	254	335	282	313	368
CAL-BERK*	371	396	505	430	415	466	469	497	435	484	465	482	474	482	542
CAL-UCLA*	462	493	521	484	528	584	607	580	530	589	543	569	617	651	594
COLUMBIA*	200	291	327	343	399	413	487	431	538	480	494	506	501	529	442
HARVARD*	341	381	361	414	473	455	435	403	421	378	426	421	469	469	537
HAWAII*	149	200	268	316	336	350	352	338	312	260	215	237	264	249	260
ILL*	103	113	139	139	154	144	163	216	287	263	296	330	286	317	357
JHU*	493	565	551	633	653	735	891	834	856	851	806	855	866	1001	1001
L.LINDA	197	241	269	223	323	258	271	761 /1	722	539	392	466	504	459	332
MASS*	87	105	86	119	118	167	138	139	135	126	152	138	171	166	154
MICH*	762	775	683	610	704	657	742	742	645	643	634	620	651	691	740
MINN*	379	477	460	455	508	509	502	448	374	369	393	405	318	370	368
No.CAR*	533	501	520	595	660	671	670	600	637	685	739	728	765	819	774
OKLA*	184	178	172	186	193	248	232	225	188	237	246	279	322	368	410
PITT*	454	408	408	459	465	483	454	500	454	496	522	552	581	607	624
PR	N/A	221	96	136	136	136	144	140	203	224	238	277	354	404	423
S.DIEGO	---	---	---	---	---	---	---	---	100	130	180	182	207	241	270
So.CAR	---	---	---	76	117	154	154	175	192	214	274	308	309	304	309
So.FLA	---	---	---	---	---	---	---	---	---	---	---	---	275	293	334
TEXAS*	325	372	365	414	555	601	603	576	504	494	503	468	490	532	536
TULANE*	301	306	302	338	366	405	344	389	382	427	415	432	417	460	415
WASH*	264	223	285	242	290	380	404	321	294	359	335	382	426	428	495
YALE*	216	215	297	229	239	270	277	287	291	272	297	274	278	286	314
TOTAL	5821 /2	6461	6615	6841	7722	8215	8486	9047	8896	8937	8957	9494	10104	10761	10965
Trends for 17 schools *	5624	5999 (+7%)	6250 (+4%)	6406 (+3%)	7056 (+10%)	7538 (+7%)	7770 (+3%)	7526 (-3%)	7283 (-3%)	7413 (+2%)	7481 (+1%)	7678 (+3%)	7896 (+3%)	8425 (+7%)	8563 (+2%)

/1 Off-campus students included for first time.
/2 Puerto Rico not included.

IV. GRADUATES

A. 1987-88 Graduates

There were 3,447 graduates from the 24 schools in 1987-88, an 8% increase over 1986-87. Of the total, 57% were female, 21% foreign, and almost 17% of the U.S. graduates were members of minority groups.

Over 65% of the degrees awarded were MPH degrees, and almost 12% were doctorates. A similar proportion of male and female graduates (11-13%) received doctorates in Fall 1987, and a slightly higher proportion of foreign graduates (14%) than U.S. graduates (11%) received doctorates. The proportion of minority graduates who received doctorates (excluding Puerto Rico) ranged from 4-9%, compared to almost 13% for White graduates.

Areas with the greatest number of graduates were health services administration (27%), epidemiology (15%), environmental sciences (11%), and "other" areas (11%). Graduates in "other" areas were concentrated in international health and population/family planning. Those areas with the greatest proportion of doctorates were biomedical sciences (45%), biostatistics (29%), and environmental sciences (20%).

There were 700 graduates with prior MD degrees reported by the schools. Those areas with the highest proportion of graduates with prior MD degrees were nonspecialized studies (44%), public health practice (36%), and epidemiology (32%).

Half (50%) of the graduates had only a prior bachelor's degree. This figure is higher if nursing degrees (most of which are bachelor's) are included. There were differences in prior degrees based on sex and citizenship. About 57% of the females had only a prior bachelor's compared to 41% of the males. About 36% of the males had prior MD degrees compared to 12% of the females. Of the foreign graduates, over half (52%) had prior MD degrees compared to 14% for U.S. graduates.

U.S. SCHOOLS OF PUBLIC HEALTH
SUMMARY CHARACTERISTICS OF GRADUATES
1987-88

SEX & CITIZENSHIP

MALES	1473	42.7 %	U.S.	2721	79.0 %
FEMALES	1974	57.3	FOREIGN	725	21.0
UNKNOWN	---	---	UNKNOWN	1	---
TOTAL	3447	100.0 %	TOTAL	3447	100.0 %
U.S. MALES	1041	38.3 %	FOR. MALES	432	59.6 %
U.S. FEMALES	1680	61.7	FOR. FEMALES	293	40.4
UNKNOWN	---	---	UNKNOWN	---	---
TOTAL	2721	100.0 %	TOTAL	725	100.0 %

RACE/ETHNICITY (U.S. CITIZENS)	MALES	FEMALES	UNKNOWN	TOTAL	
ASIAN	48	84	0	132	5.2 %
BLACK	49	90	0	139	5.5
HISPANIC					
PUERTO RICO	8	52	0	60	2.4
MAINLAND	37	42	0	79	3.1
AMERIND	9	9	0	18	.7
(TOTAL MIN.)	(151)	(277)	(0)	(428)	(16.9)
WHITE	824	1278	0	2102	83.1
UNKNOWN	66	125	0	191	---
TOTAL	1041	1680	0	2721	100.0 %

AREA OF SPECIALIZATION

BIOSTAT	168.0	4.9 %	NUTR	128.0	3.7 %
EPID	517.5	15.0	BIOMED	69.0	2.0
HSA	927.5	26.9	OTHER	389.5	11.3
PHP&PM	268.0	7.8	NONSPEC	256.0	7.4
H.EDUC/BS	269.5	7.8			
ENV.SC	377.5	11.0	TOTAL	3447.0	100.0 %
OS&H	76.5	2.2			

DEGREE AWARDED

MPH	2252	65.3 %	PhD	240	7.0 %
MS	316	9.2	OTHER DOCT.	12	.3
MSPH	113	3.3	JOINT DEGREE	49	1.4
MHA/MHSA	191	5.5			
OTHER MASTERS	115	3.3	TOTAL	3447	100 %
DrPH	106	3.1	TOTAL MAST.	3036	88.1 %
ScD	53	1.5	TOTAL DOCT.	411	11.9 %

HIGHEST PREVIOUS DEGREE

BACHELORS	1569	50.0 %	PhD	44	1.4 %
NURSING DEG.	287	9.1	OTHER DOCT.	7	.2
MASTERS	405	12.9	OTHER DEGREE	37	1.2
MD/DO	700	22.3	UNKNOWN	309	---
DDS	62	2.0			
DVM	27	.9	TOTAL	3447	100.0 %

TABLE 4-1
U.S. SCHOOLS OF PUBLIC HEALTH
GRADUATES BY SCHOOL, SEX & CITIZENSHIP
1987-88

SCHOOL	MALE	FEMALE	UNKNOWN	TOTAL
ALA	70.0	51.0	.0	121.0
BOSTON	27.0	90.0	.0	117.0
CAL-BERK	68.0	125.0	.0	193.0
CAL-UCLA	74.0	137.0	.0	211.0
COLUMBIA	66.0	127.0	.0	193.0
HARVARD	115.0	101.0	.0	216.0
HAWAII	45.0	55.0	.0	100.0
ILL	31.0	66.0	.0	97.0
JHU	132.0	177.0	.0	309.0
L.LINDA	51.0	53.0	.0	104.0
MASS	16.0	28.0	.0	44.0
MICH	111.0	148.0	.0	259.0
MINN	66.0	106.0	.0	172.0
No.CAR	118.0	149.0	.0	267.0
OKLA	37.0	35.0	.0	72.0
PITT	64.0	85.0	.0	149.0
PR	44.0	70.0	.0	114.0
S.DIEGO	23.0	43.0	.0	66.0
So.CAR	36.0	33.0	.0	69.0
So.FLA	17.0	33.0	.0	50.0
TEXAS	60.0	78.0	.0	138.0
TULANE	121.0	69.0	.0	190.0
WASH	46.0	53.0	.0	99.0
YALE	35.0	62.0	.0	97.0
Total	1473.0	1974.0	.0	3447.0

SCHOOL	U.S.	FOREIGN	UNKNOWN	TOTAL
ALA	76.0	45.0	.0	121.0
BOSTON	98.0	19.0	.0	117.0
CAL-BERK	172.0	21.0	.0	193.0
CAL-UCLA	157.0	54.0	.0	211.0
COLUMBIA	162.0	30.0	1.0	193.0
HARVARD	156.0	60.0	.0	216.0
HAWAII	71.0	29.0	.0	100.0
ILL	82.0	15.0	.0	97.0
JHU	217.0	92.0	.0	309.0
L.LINDA	72.0	32.0	.0	104.0
MASS	41.0	3.0	.0	44.0
MICH	214.0	45.0	.0	259.0
MINN	155.0	17.0	.0	172.0
No.CAR	222.0	45.0	.0	267.0
OKLA	66.0	6.0	.0	72.0
PITT	127.0	22.0	.0	149.0
PR	60.0	54.0	.0	114.0
S.DIEGO	54.0	12.0	.0	66.0
So.CAR	62.0	7.0	.0	69.0
So.FLA	48.0	2.0	.0	50.0
TEXAS	117.0	21.0	.0	138.0
TULANE	107.0	83.0	.0	190.0
WASH	95.0	4.0	.0	99.0
YALE	90.0	7.0	.0	97.0
Total	2721.0	725.0	1.0	3447.0

TABLE 4-2
U.S. SCHOOLS OF PUBLIC HEALTH
U.S. GRADUATES BY SCHOOL & RACE/ETHNICITY
1987-88

SCHOOL	ASIAN	BLACK	HISPANIC	AMERIND	TOTAL MINORITY
ALA	2.0	10.0	.0	.0	12.0
BOSTON	3.0	3.0	.0	.0	6.0
CAL-BERK	14.0	17.0	11.0	2.0	44.0
CAL-UCLA	16.0	14.0	15.0	1.0	46.0
COLUMBIA	.0	.0	.0	.0	.0
HARVARD	12.0	3.0	8.0	.0	23.0
HAWAII	12.0	.0	.0	5.0	17.0
ILL	5.0	11.0	4.0	.0	20.0
JHU	10.0	5.0	5.0	.0	20.0
L.LINDA	4.0	3.0	2.0	.0	9.0
MASS	.0	1.0	.0	.0	1.0
MICH	13.0	6.0	3.0	.0	22.0
MINN	1.0	1.0	.0	.0	2.0
No.CAR	3.0	16.0	1.0	2.0	22.0
OKLA	2.0	12.0	4.0	6.0	24.0
PITT	4.0	1.0	2.0	.0	7.0
PR	.0	.0	60.0	.0	60.0
S.DIEGO	4.0	2.0	6.0	1.0	13.0
So.CAR	.0	4.0	.0	.0	4.0
So.FLA	4.0	2.0	3.0	.0	9.0
TEXAS	8.0	7.0	3.0	.0	18.0
TULANE	4.0	11.0	5.0	.0	20.0
WASH	3.0	1.0	2.0	1.0	7.0
YALE	8.0	9.0	5.0	.0	22.0
Total	132.0	139.0	139.0	18.0	428.0

SCHOOL	WHITE	UNKNOWN	TOTAL
ALA	64.0	.0	76.0
BOSTON	92.0	.0	98.0
CAL-BERK	128.0	.0	172.0
CAL-UCLA	99.0	12.0	157.0
COLUMBIA	.0	162.0	162.0
HARVARD	133.0	.0	156.0
HAWAII	49.0	5.0	71.0
ILL	62.0	.0	82.0
JHU	197.0	.0	217.0
L.LINDA	63.0	.0	72.0
MASS	40.0	.0	41.0
MICH	184.0	8.0	214.0
MINN	153.0	.0	155.0
No.CAR	200.0	.0	222.0
OKLA	42.0	.0	66.0
PITT	120.0	.0	127.0
PR	.0	.0	60.0
S.DIEGO	39.0	2.0	54.0
So.CAR	58.0	.0	62.0
So.FLA	38.0	1.0	48.0
TEXAS	99.0	.0	117.0
TULANE	87.0	.0	107.0
WASH	87.0	1.0	95.0
YALE	68.0	.0	90.0
Total	2102.0	191.0	2721.0

TABLE 4-3
U.S. SCHOOLS OF PUBLIC HEALTH
GRADUATES BY DEGREE, SEX, CITIZENSHIP & RACE/ETHNICITY /1
1987-88

DEGREE	U.S. MALES	U.S. FEMALES	FOREIGN MALES	FOREIGN FEMALES
MPH	636	1104	304	207
MS	90	165	33	28
MSPH	51	48	11	3
MHA/MHSA	82	92	11	6
OTHER.MAST	35	60	8	12
DrPH	21	53	18	14
ScD	17	24	6	6
PhD	79	107	37	17
OTHER.DOC	6	3	3	0
JOINT.DEG	24	24	1	0
TOTAL	1041	1680	432	293
% MASTERS /2	88.2	88.9	85.2	87.4
% DOCT. /2	11.8	11.1	14.8	12.6

DEGREE	MALES	FEMALES	U.S.	FOREIGN
MPH	940	1312	1740	511
MS	123	193	255	61
MSPH	62	51	99	14
MHA/MHSA	93	98	174	17
OTHER.MAST	43	72	95	20
DrPH	39	67	74	32
ScD	23	30	41	12
PhD	116	124	186	54
OTHER.DOC	9	3	9	3
JOINT.DEG	25	24	48	1
TOTAL	1473	1974	2721	725
% MASTERS /2	87.3	88.7	88.6	86.1
% DOCT. /2	12.7	11.3	11.4	13.9

			HISPANIC			
DEGREE	ASIAN	BLACK	PUERTO RICO	MAINLAND	AMERIND	WHITE
MPH	92	114	21	68	16	1270
MS	16	7	15	2	1	203
MSPH	3	6	0	0	0	90
MHA/MHSA	5	3	2	1	0	163
OTHER.MAST	3	1	22	0	0	69
DrPH	3	3	0	3	0	50
ScD	3	0	0	1	0	37
PhD	6	2	0	3	1	169
OTHER.DOC	0	1	0	0	0	8
JOINT.DEG	1	2	0	1	0	43
TOTAL	132	139	60	79	18	2102
% MASTERS /2	90.9	95.7	100.0	91.1	94.4	87.4
% DOCT. /2	9.1	4.3	---	8.9	5.6	12.6

/1 Excludes graduates of unknown sex, citizenship, and race/ethnicity.

/2 Includes joint degrees classified according to school of public health degree.

TABLE 4-4
U.S. SCHOOLS OF PUBLIC HEALTH
GRADUATES BY SCHOOL AND DEGREE AWARDED
1987-88

SCHOOL	MPH		MS		MSPH		MHA/ MHSA		OTHER MASTERS		DrPH		SoD		PhD		OTHER DOCT.		JOINT DEGREE		TOTAL	TOTAL MAST. /1		TOTAL DOCT. /1	
ALA	104	86.0%		.0%	6	5.0%		.0%		.0%	1	.8%		.0%	1	.8%		.0%	9	7.4%	121	119	98.3%	2	1.7%
BOSTON	117	100.0		.0		.0		.0		.0		.0		.0		.0		.0		.0	117	117	100.0	0	.0
CAL-BERK	161	83.4		.0		.0		.0	4	2.1	10	5.2		.0	10	5.2		.0	8	4.1	193	173	89.6	20	10.4
CAL-UCLA	146	69.2	29	13.7		.0		.0		.0	10	4.7		.0	14	6.6	7	3.3	5	2.4	211	180	85.3	31	14.7
COLUMBIA	171	88.6	7	3.6		.0		.0		.0	15	7.8		.0		.0		.0		.0	193	178	92.2	15	7.8
HARVARD	95	44.0	73	33.8		.0		.0	5	2.3	12	5.6	31	14.4		.0		.0		.0	216	173	80.1	43	19.9
HAWAII	83	83.0	8	8.0		.0		.0		.0	7	7.0		.0	2	2.0		.0		.0	100	91	91.0	9	9.0
ILL	85	87.6	10	10.3		.0		.0		.0	2	2.1		.0		.0		.0		.0	97	95	97.9	2	2.1
JHU	163	52.8	12	3.9		.0		.0	51	16.5	7	2.3	17	5.5	59	19.1		.0		.0	309	226	73.1	83	26.9
L.LINDA	60	57.7		.0	5	4.8	34	32.7		.0	2	1.9		.0		.0	3	2.9		.0	104	99	95.2	5	4.8
MASS	20	45.5	23	52.3		.0		.0		.0		.0		.0	1	2.3		.0		.0	44	43	97.7	1	2.3
MICH	126	48.6	49	18.9		.0	38	14.7		.0	4	1.5		.0	42	16.2		.0		.0	259	213	82.2	46	17.8
MINN	95	55.2	17	9.9		.0	50	29.1		.0		.0		.0	10	5.8		.0		.0	172	162	94.2	10	5.8
No.CAR	128	47.9	18	6.7	67	25.1		.0	9	3.4	16	6.0		.0	29	10.9		.0		.0	267	222	83.1	45	16.9
OKLA	62	86.1	5	6.9		.0		.0		.0		.0		.0	5	6.9		.0		.0	72	67	93.1	5	6.9
PITT	56	37.6	12	8.1		.0	29	19.5	24	16.1	3	2.0	2	1.3	23	15.4		.0		.0	149	121	81.2	28	18.8
PR	74	64.9	16	14.0		.0	2	1.8	22	19.3		.0		.0		.0		.0		.0	114	114	100.0	0	.0
S.DIEGO	66	100.0		.0		.0		.0		.0		.0		.0		.0		.0		.0	66	66	100.0	0	.0
So.CAR	35	50.7	4	5.8	20	29.0	3	4.3		.0		.0		.0	3	4.3	2	2.9	2	2.9	69	64	92.8	5	7.2
So.FLA	46	92.0		.0	4	8.0		.0		.0		.0		.0		.0		.0		.0	50	50	100.0	0	.0
TEXAS	90	65.2	16	11.6		.0		.0		.0	11	8.0		.0	21	15.2		.0		.0	138	106	76.8	32	23.2
TULANE	136	71.6		.0	11	5.8	15	7.9		.0	6	3.2	3	1.6		.0		.0	19	10.0	190	181	95.3	9	4.7
WASH	49	49.5	17	17.2		.0	20	20.2		.0		.0		.0	11	11.1		.0	2	2.0	99	88	88.9	11	11.1
YALE	84	86.6		.0		.0		.0		.0		.0		.0	9	9.3		.0	4	4.1	97	88	90.7	9	9.3
TOTAL	2252	65.3%	316	9.2%	113	3.3%	191	5.5%	115	3.3%	106	3.1%	53	1.5%	240	7.0%	12	.3%	49	1.4%	3447	3036	88.1%	411	11.9%

/1 Includes joint degrees classified according to school of public health degree.

TABLE 4-5
U.S. SCHOOLS OF PUBLIC HEALTH
GRADUATES BY AREA AND DEGREE
1987-88

DEGREE	BIOSTAT	EPID	HSA	PHP&PM	H.EDUC/BS	ENV.SC
MPH	20.0	356.5	572.5	238.0	220.5	166.0
MS	87.0	41.0	50.0	3.0	13.0	71.5
MSPH	5.0	20.0	30.0	1.0	2.0	36.0
MHA/MHSA			191.0			
OTHER MAST.	8.0	7.0	13.0	9.0	9.0	26.0
DrPH	4.0	11.0	34.0	8.0	13.0	5.0
ScD	5.0	6.0	12.0	5.0		5.0
PhD	39.0	74.0	12.0		10.0	60.0
OTHER DOCT.				3.0	2.0	7.0
JOINT DEG.		2.0	13.0	1.0		1.0
TOTAL	168.0	517.5	927.5	268.0	269.5	377.5
% MASTERS /1	71.4	82.4	93.7	94.0	90.7	79.6
% DOCT. /1	28.4	17.6	6.3	6.0	9.3	20.4

DEGREE	OS&H	NUTR	BIOMED	OTHER	NONSPEC	TOTAL
MPH	39.0	92.0	16.0	291.5	240.0	2252.0
MS	14.5	7.0	4.0	25.0		316.0
MSPH	1.0	1.0	11.0	6.0		113.0
MHA/MHSA						191.0
OTHER MAST.	12.0	13.0	6.0	12.0		115.0
DrPH	1.0	8.0	6.0	16.0		106.0
ScD	3.0	3.0	8.0	6.0		53.0
PhD	6.0	4.0	17.0	18.0		240.0
OTHER DOCT.						12.0
JOINT DEG.			1.0	15.0	16.0	49.0
TOTAL	76.5	128.0	69.0	389.5	256.0	3447.0
% MASTERS /1	86.9	88.3	55.1	89.7	93.8	88.1
% DOCT. /1	12.1	11.7	44.9	10.3	6.2	11.9

/1 Includes joint degrees classified according to school of public health degree.

TABLE 4-6
U.S. SCHOOLS OF PUBLIC HEALTH
JOINT DEGREES BY AREA, SEX, & CITIZENSHIP
1987-88

AREA	SUBAREA	JOINT DEGREE	TOTAL
EPID		MD-MPH	1.0
EPID		MPH-PhD	1.0
HSA		MD-MHA	1.0
HSA		MD-MPH	3.0
HSA		MPH-MBA	3.0
HSA		MPH-MHA	4.0
HSA		MPH-MS	2.0
PHP&PM	MCH	MPH-MSW	1.0
ENV.SC		MPH-MPPM	1.0
BIOMED		MS-MA	1.0
OTHER	GENETICS	MS-MA	7.0
OTHER	POP/FAM.HLTH	MPH-MA	1.0
OTHER	TROPICAL.PH	MD-MPH	7.0
NONSPEC		MD-MPH	7.0
NONSPEC		MPH-MBA	7.0
NONSPEC		MPH-PhD	2.0
Total			49.0

JOINT DEGREE	MALE	FEMALE	U.S.	FOREIGN
MD-MHA	.0	1.0	1.0	.0
MD-MPH	14.0	4.0	18.0	.0
MPH-MA	.0	1.0	1.0	.0
MPH-MBA	7.0	3.0	9.0	1.0
MPH-MHA	1.0	3.0	4.0	.0
MPH-MPPM	.0	1.0	1.0	.0
MPH-MS	.0	2.0	2.0	.0
MPH-MSW	1.0	.0	1.0	.0
MPH-PhD	1.0	2.0	3.0	.0
MS-MA	1.0	7.0	8.0	.0
Total	25.0	24.0	48.0	1.0

TABLE 4-7
U.S. SCHOOLS OF PUBLIC HEALTH
GRADUATES BY AREA, SEX, CITIZENSHIP, & RACE/ETHNICITY /1
1987-88

AREA	U.S. MALES	U.S. FEMALES	FOREIGN MALES	FOREIGN FEMALES
BIOSTAT	54.0	56.0	25.0	33.0
EPID	164.5	225.0	84.5	43.5
HSA	311.0	498.5	73.0	45.0
PHP&PM	39.5	155.0	40.0	33.5
H.EDUC/BS	52.0	181.0	16.5	20.0
ENV.SC	163.5	171.5	30.5	12.0
OS&H	45.5	21.0	8.0	2.0
NUTR	16.0	92.5	10.5	9.0
BIOMED	21.0	31.0	8.0	9.0
OTHER	66.0	176.5	88.0	59.0
NONSPEC	108.0	72.0	48.0	27.0
TOTAL	1041.0	1680.0	432.0	293.0

AREA	MALE	FEMALE	U.S.	FOREIGN
BIOSTAT	79.0	89.0	110.0	58.0
EPID	249.0	268.5	389.5	128.0
HSA	384.0	543.5	809.5	118.0
PHP&PM	79.5	188.5	194.5	73.5
H.EDUC/BS	68.5	201.0	233.0	36.5
ENV.SC	194.0	183.5	335.0	42.5
OS&H	53.5	23.0	66.5	10.0
NUTR	26.5	101.5	108.5	19.5
BIOMED	29.0	40.0	52.0	17.0
OTHER	154.0	235.5	242.5	147.0
NONSPEC	156.0	100.0	180.0	75.0
TOTAL	1473.0	1974.0	2721.0	725.0

			HISPANIC			
AREA	ASIAN	BLACK	PUERTO RICO	MAINLAND	AMERIND	WHITE
BIOSTAT	9.0	1.0	1.0	0.0	1.0	91.0
EPID	33.0	25.0	7.0	15.0	1.0	294.5
HSA	34.0	47.0	4.0	23.0	1.0	625.5
PHP&PM	6.0	15.0	3.0	9.0	9.0	155.5
H.EDUC/BS	11.0	11.0	9.0	8.0	0.0	182.0
ENV.SC	11.0	8.0	12.0	6.0	4.0	280.0
OS&H	3.0	2.0	0.0	0.0	1.0	60.5
NUTR	3.0	7.0	13.0	2.0	0.0	81.5
BIOMED	6.0	1.0	0.0	0.0	1.0	45.0
OTHER	10.0	10.0	1.0	11.0	0.0	168.5
NONSPEC	6.0	12.0	10.0	5.0	1.0	118.0
TOTAL	132.0	139.0	60.0	79.0	18.0	2102.0

/1 Excludes graduates of unknown sex, citizenship, and race/ethnicity.

TABLE 4-8
U.S. SCHOOLS OF PUBLIC HEALTH
GRADUATES BY SCHOOL AND AREA OF SPECIALIZATION
1987-88

SCHOOL	BIOSTAT		EPID		HSA		PHP&PM		H.EDUC/BS		ENV.SC		OS&H		NUTR		BIOMED		OTHER		NONSPEC		TOTAL
ALA	1.0	.8%	30.0	24.8%	0.0	.0%	6.0	5.0%	5.0	4.1%	4.0	3.3%	2.0	1.7%	3.0	2.5%		.0%	37.0	30.6%	33.0	27.3%	121.0
BOSTON		.0	23.0	19.7	74.0	63.2		.0	12.5	10.7	7.5	6.4		.0		.0		.0		.0		.0	117.0
CAL-BERK	11.0	5.7	33.0	17.1	30.0	15.5	24.0	12.4	23.0	11.9	18.0	9.3		.0	16.0	8.3	6.0	3.1	16.0	8.3	16.0	8.3	193.0
CAL-UCLA	16.0	7.6	44.0	20.9	41.0	19.4		.0	30.0	14.2	21.0	10.0		.0	20.0	9.5		.0	39.0	18.5		.0	211.0
COLUMBIA	4.0	2.1	17.0	8.8	68.0	35.2	3.0	1.6	8.0	4.1	15.0	7.8		.0		.0		.0	43.0	22.3	35.0	18.1	193.0
HARVARD	19.0	8.8	24.0	11.1	54.0	25.0	17.0	7.9	6.0	2.8	11.0	5.1	20.0	9.3	4.0	1.9	5.0	2.3	16.0	7.4	40.0	18.5	216.0
HAWAII	4.0	4.0	13.0	13.0	26.0	26.0	10.0	10.0	18.0	18.0	8.0	8.0		.0	9.0	9.0		.0	12.0	12.0		.0	100.0
ILL		.0	17.0	17.5	23.0	23.7	35.0	36.1		.0	22.0	22.7		.0		.0		.0		.0		.0	97.0
JHU	6.0	1.9	68.0	22.0	64.0	20.7	27.0	8.7		.0	40.0	12.9		.0		.0	27.0	8.7	77.0	24.9		.0	309.0
L.LINDA	2.0	1.9	3.0	2.9	36.0	34.6	3.0	2.9	40.0	38.5	4.0	3.8		.0	6.0	5.8		.0	7.0	6.7	3.0	2.9	104.0
MASS	2.0	4.5	8.0	18.2	15.0	34.1		.0	7.0	15.9	11.0	25.0		.0	1.0	2.3		.0		.0		.0	44.0
MICH	38.0	14.7	26.5	10.2	60.5	23.4	8.0	3.1	28.0	10.8	39.0	15.1	25.5	9.8	7.0	2.7		.0	26.5	10.2		.0	259.0
MINN	8.0	4.7	11.0	6.4	71.0	41.3	26.0	15.1	9.0	5.2	28.0	16.3		.0	15.0	8.7		.0		.0	4.0	2.3	172.0
No.CAR	26.0	9.7	25.0	9.4	68.0	25.5	35.0	13.1	24.0	9.0	44.0	16.5		.0	26.0	9.7	19.0	7.1		.0		.0	267.0
OKLA		.0	11.0	15.3	42.0	58.3		.0	8.0	11.1	11.0	15.3		.0		.0		.0		.0		.0	72.0
PITT	8.0	5.4	27.0	18.1	59.0	39.6		.0		.0	19.0	12.8	11.0	7.4		.0	6.0	4.0	19.0	12.8		.0	149.0
PR	1.0	.9	10.0	8.8	4.0	3.5	4.0	3.5	9.0	7.9	13.0	11.4		.0	13.0	11.4		.0	1.0	.9	59.0	51.8	114.0
S.DIEGO		.0	9.0	13.6	12.0	18.2	25.0	37.9	10.0	15.2	10.0	15.2		.0		.0		.0		.0		.0	66.0
So.CAR	2.0	2.9	12.0	17.4	21.0	30.4		.0	19.0	27.5	11.0	15.9		.0		.0		.0		.0	4.0	5.8	69.0
So.FLA		.0	11.0	22.0	21.0	42.0	11.0	22.0	6.0	12.0	1.0	2.0		.0		.0		.0		.0		.0	50.0
TEXAS	7.0	5.1	15.0	10.9	15.0	10.9	14.0	10.1	1.0	.7	14.0	10.1	14.0	10.1		.0		.0	32.0	23.2	26.0	18.8	138.0
TULANE	1.0	.5	24.0	12.6	32.0	16.8	18.0	9.5	6.0	3.2	13.0	6.8		.0	8.0	4.2	3.0	1.6	64.0	33.7	21.0	11.1	190.0
WASH	9.0	9.1	23.0	23.2	40.0	40.4	2.0	2.0		.0	3.0	3.0	4.0	4.0		.0	3.0	3.0		.0	15.0	15.2	99.0
YALE	3.0	3.1	33.0	34.0	51.0	52.6		.0		.0	10.0	10.3		.0		.0		.0		.0		.0	97.0
TOTAL	168.0	4.9%	517.5	15.0%	927.5	26.9%	268.0	7.8%	269.5	7.8%	377.5	11.0%	76.5	2.2%	128.0	3.7%	69.0	2.0%	389.5	11.3%	256.0	7.4%	3447.0

TABLE 4-9
U.S. SCHOOLS OF PUBLIC HEALTH
GRADUATES WITH PRIOR M.D. DEGREES BY AREA & DEGREE
1987-88

AREA	U.S.	FOREIGN	TOTAL	% OF GRADUATES WITH PRIOR M.D. DEGREES
BIOSTAT	4.0	5.0	9.0	5.4 %
EPID	91.0	76.5	167.5	32.4
HSA	56.5	58.0	114.5	12.3
PHP&PM	45.0	52.0	97.0	36.2
H.EDUC/BS	7.0	10.0	17.0	6.3
ENV.SC	34.5	12.5	47.0	12.5
OS&H	15.0	5.0	20.0	26.1
NUTR	3.0	6.0	9.0	7.0
BIOMED	2.0	5.0	7.0	10.1
OTHER	42.0	58.0	100.0	25.7
NONSPEC	57.0	55.0	112.0	43.8
TOTAL	357.0	343.0	700.0	

DEGREE	U.S.	FOREIGN	TOTAL
MPH	319.0	297.0	616.0
MS	9.0	15.0	24.0
MSPH	2.0	2.0	4.0
MHA/MHSA	2.0	3.0	5.0
OTHER.MAST	11.0	3.0	14.0
DrPH	4.0	12.0	16.0
ScD	2.0	3.0	5.0
PhD	8.0	8.0	16.0
TOTAL	357	343	700

TABLE 4-10
U.S. SCHOOLS OF PUBLIC HEALTH
HIGHEST PREVIOUS DEGREE OF GRADUATES BY SEX & CITIZENSHIP /1
1987-88

PRIOR DEGREE	U.S. MALES		U.S. FEMALES		FOREIGN MALES		FOREIGN FEMALES	
BACHELORS	475	50.1 %	934	61.2 %	77	19.5 %	83	31.0 %
NURSING	19	2.0	238	15.6	5	1.3	25	9.3
MASTERS	133	14.0	198	13.0	42	10.6	32	11.9
MD	244	25.7	113	7.4	239	60.5	104	38.8
DDS	28	3.0	6	.4	15	3.8	13	4.9
DVM	17	1.8	5	.3	3	.8	2	.7
PhD	22	2.3	15	1.0	5	1.3	2	.7
OTHER.DOC	4	.4	2	.1	1	.3	0	.0
OTHER.DEG	7	.7	15	1.0	8	2.0	7	2.6
UNKNOWN	92	---	154	---	37	---	25	---
TOTAL	1041	100.0 %	1680	100.0 %	432	100.0 %	293	100.0 %

PRIOR DEGREE	MALE		FEMALE		U.S.		FOREIGN	
BACHELORS	552	41.1 %	1017	56.7 %	1409	56.9 %	160	24.1 %
NURSING	24	1.8	263	14.7	257	10.4	30	4.5
MASTERS	175	13.0	230	12.8	331	13.4	74	11.2
MD	483	35.9	217	12.1	357	14.4	343	51.7
DDS	43	3.2	19	1.1	34	1.4	28	4.2
DVM	20	1.5	7	.4	22	.9	5	.8
PhD	27	2.0	17	.9	37	1.5	7	1.1
OTHER.DOC	5	.4	2	.1	6	.2	1	.2
OTHER.DEG	15	1.1	22	1.2	22	.9	15	2.3
UNKNOWN	129	---	180	---	246	---	62	---
TOTAL	1473	100.0 %	1974	100.0 %	2721	100.0 %	725	100.0 %

/1 Excludes graduates of unknown sex and citizenship.

TABLE 4-11
U.S. SCHOOLS OF PUBLIC HEALTH
HIGHEST PREVIOUS DEGREE OF GRADUATES BY SCHOOL
1987-88

SCHOOL	BACHELOR		NURSING DEGREE /1		MASTERS		MD/DO		DDS		DVM		PhD		OTHER DOCT.		OTHER DEGREE		UNKNOWN	TOTAL
ALA	51	42.1%	5	4.1%	12	9.9%	25	20.7%	23	19.0%	1	.8%	3	2.5%	1	.8%		.0%		121
BOSTON	60	51.7	16	13.8	15	12.9	23	19.8		.0		.0		.0		.0	2	1.7	1	117
CAL-BERK	115	59.6		.0	35	18.1	39	20.2		.0	2	1.0	1	.5	1	.5		.0		193
CAL-UCLA	144	68.2	13	6.2	13	6.2	21	10.0	5	2.4		.0		.0		.0	15	7.1		211
COLUMBIA	111	58.4	13	6.8	28	14.7	31	16.3	2	1.1		.0	4	2.1	1	.5		.0	3	193
HARVARD	49	22.7	11	5.1	33	15.3	100	46.3	6	2.8	3	1.4	10	4.6	1	.5	3	1.4		216
HAWAII	47	47.0	14	14.0	15	15.0	23	23.0		.0	1	1.0		.0		.0		.0		100
ILL	43	44.3	9	9.3	5	5.2	33	34.0		.0	1	1.0	4	4.1		.0	2	2.1		97
JHU	82	26.5	37	12.0	60	19.4	114	36.9	1	.3	9	2.9	5	1.6	1	.3		.0		309
L.LINDA	58	55.8	14	13.5	11	10.6	17	16.3	4	3.8		.0		.0		.0		.0		104
MASS	32	76.2	4	9.5	1	2.4	2	4.8		.0	1	2.4		.0		.0	2	4.8	2	44
MICH		---		---		---		---		---		---		---		---		---	259	259
MINN	104	61.5	23	13.6	18	10.7	17	10.1	2	1.2	2	1.2	3	1.8		.0		.0	3	172
No.CAR	128	54.5	25	10.6	46	19.6	22	9.4	8	3.4		.0	5	2.1	1	.4		.0	32	267
OKLA	42	58.3	10	13.9	12	16.7	6	8.3	1	1.4		.0	1	1.4		.0		.0		72
PITT	98	65.8	3	2.0	25	16.8	17	11.4	2	1.3		.0	4	2.7		.0		.0		149
PR	45	39.5	11	9.6	1	.9	46	40.4		.0	1	.9		.0		.0	10	8.8		114
S.DIEGO	28	47.5	8	13.6	2	3.4	19	32.2	1	1.7		.0		.0	1	1.7		.0	7	66
So.CAR	53	76.8	2	2.9	7	10.1	6	8.7	1	1.4		.0		.0		.0		.0		69
So.FLA	23	46.0	14	28.0	5	10.0	8	16.0		.0		.0		.0		.0		.0		50
TEXAS	61	44.9	21	15.4	20	14.7	28	20.6	1	.7	2	1.5	2	1.5		.0	1	.7	2	138
TULANE	94	49.5	14	7.4	13	6.8	67	35.3		.0	1	.5		.0		.0	1	.5		190
WASH	42	42.4	16	16.2	14	14.1	18	18.2	4	4.0	2	2.0	2	2.0		.0	1	1.0		99
YALE	59	60.8	4	4.1	14	14.4	18	18.6	1	1.0	1	1.0		.0		.0		.0		97
TOTAL	1569	50.0%	287	9.1%	405	12.9%	700	22.3%	62	2.0%	27	.9%	44	1.4%	7	.2%	37	1.2%	309	3447

/1 All nursing degrees are included in this category -- bachelors, masters, and doctorates.

B. Graduate Trends

In 1960-61, there were 770 graduates from 12 U.S. and 2 Canadian schools of public health. By 1980-81, there were over 3,000 graduates annually from the U.S. schools of public health. Many of the graduate trends duplicate trends in student characteristics and will not be repeated.

The MPH remains the most commonly awarded degree, and accounts for about 65% of the total degrees awarded (75% of the total master's degrees) each year. The MS represents about 10% of the total degrees, (10% of the total master's), the MSPH about 3-4% (4%), the MHA/MHSA about 5-6% (6%), and other master's degrees around 3% (4%). The number of degrees in the various master's categories fluctuates from year to year, sometimes significantly, so it is difficult to identify trends in the master's degrees awarded. It appears, however, that the proportion of MSPH degrees awarded is declining. It is also probable that the proportion of MHA/MHSA degrees awarded will increase, as a growing number of schools are offering this degree.

The proportion of doctorates increased during the late 1960s to around 9% and has remained at about that level, fluctuating between 8-11% of total degrees awarded. The PhD degree supplanted the DrPH and ScD degrees as the most commonly-awarded doctoral degree in the late 1960s, and continues to be the most popular doctoral degree. In 1961-62, 47% of the doctorates were DrPH degrees, 33% were ScD degrees, and 20% were PhD degrees. In 1987-88, 26% of the doctorates were DrPH degrees, 13% were ScD degrees, and over 58% were PhD degrees (3% were other doctorates). Twenty-two schools of public health currently offer doctoral degrees.

During the early 1960s, over half of the U.S. graduates from schools of public health had prior degrees in the health professions, particularly medicine, nursing, dentistry, and veterinary medicine. Over the years the proportion of U.S. graduates with prior medical training decreased (although in most cases, the actual numbers increased) as school of public health enrollment reflected a greater diversity among students during the 1970s and 1980s. While the majority of students still had health-related undergraduate degrees (e.g., biological sciences), a smaller proportion were medically-trained professionals.

Within the last several years, however, the proportion of medically-trained U.S. graduates has been rising. The data on highest previous degree of total graduates is greatly influenced by an increase or decrease in the proportion of foreign graduates, as these individuals more commonly have medical degrees than U.S. graduates. However, as the data below indicates, the proportion of U.S. graduates with prior medical degrees is also increasing.

The following data gives the number of medically-trained U.S. graduates since 1960-61. The percentage reflects the proportion of total U.S. graduates for the given academic year.

	1961/62		1969-70		1982-83		1985-86		1987-88	
Physicians	145	26%	204	15%	223	10%	281	10.8%	357	14.4%
Dentists	22	4%	56	4%	39	2%	23	0.9%	34	1.4%
Veterinarians	12	2%	19	1%	12	0.5%	14	0.5%	22	0.9%
Nurses	62	11%	186	14%	177	8%	209	8.0%	257	10.4%

U.S. SCHOOLS OF PUBLIC HEALTH
CHARACTERISTICS OF GRADUATES

Graduates by Sex

YEAR	MALES		FEMALES		UNKNOWN	TOTAL
1960-61	556	72.2 %	214	27.8 %	0	770
1961-62	620	77.3	182	22.7	0	802
1962-63	627	73.7	224	26.3	0	851
1963-64	739	74.0	259	26.0	0	998
1964-65	813	71.2	329	28.8	0	1142
1965-66	831	68.8	377	31.2	0	1208
1966-67	795	68.0	374	32.0	65	1234
1967-68	893	64.9	483	35.1	14	1390
1968-69	1061	66.4	538	33.6	0	1599
1969-70	1148	65.9	593	34.1	0	1741
1974-75 /1	1270	56.1	992	43.9	0	2262
1975-76	1554	53.6	1343	46.4	0	2897
1976-77	1453	52.4	1321	47.6	0	2774
1977-78 /1	1410	50.1	1403	49.9	0	2813
1978-79	1431	49.1	1486	50.9	0	2917
1979-80	1576	47.4	1750	52.6	0	3326
1980-81 /2	1479	46.7	1689	53.3	0	3168
1981-82	1434	44.9	1762	55.1	0	3196
1982-83	1535	44.0	1957	56.0	0	3492
1983-84	1477	44.8	1820	55.2	2	3299
1984-85	1253	41.1	1794	58.9	0	3047
1985-86	1358	41.6	1909	58.4	1	3268
1986-87	1292	40.5	1899	59.5	0	3191
1987-88	1473	42.7	1974	57.3	0	3447

/1 Puerto Rico did not report in 1974-75 and 1977-78.
/2 Columbia did not report in 1980-81.

Data for 1960-61/1969-70 is from Dr. James Troupin and includes two Canadian schools.

Data for 1974-75/1980-81 includes bachelor degrees.

U.S. SCHOOLS OF PUBLIC HEALTH
CHARACTERISTICS OF GRADUATES (Contined)

U.S. Graduates by Race/Ethnicity

YEAR	ASIAN		BLACK		HISPANIC				AMERIND		WHITE		UNKNOWN	TOTAL
					PUERTO RICO		MAINLAND							
1974-75	73	4.1%	176	9.8%	N/A	N/A	38	2.1%	20	1.1%	1495	83.0%	187	1989
1975-76	92	3.7	188	7.5	121	4.8%	47	1.9	18	.7	2037	81.4	32	2535
1976-77	122	4.9	176	7.1	38	1.5	43	1.7	19	.8	2081	83.9	0	2479
1977-78	113	4.6	148	6.0	N/A	N/A	48	2.0	22	.9	2126	86.5	2	2459
1978-79	142	5.4	164	6.3	64	2.4	46	1.8	28	1.1	2179	83.1	0	2623
1979-80	113	3.9	182	6.3	82	2.8	50	1.7	25	.9	2452	84.4	19	2923
1980-81	149	5.7	163	6.2	46	1.8	73	2.8	24	.9	2159	82.6	148	2762
1981-82	112	4.4	143	5.6	40	1.6	64	2.5	24	.9	2181	85.1	156	2720
1982-83	150	5.1	166	5.6	45	1.5	51	1.7	27	.9	2508	85.1	22	2969
1983-84	112	4.3	150	5.8	53	2.0	57	2.2	25	1.0	2191	84.7	64	2652
1984-85	125	5.0	140	5.6	39	1.6	49	2.0	18	.7	2113	85.1	52	2536
1985-86	112	4.3	150	5.7	58	2.2	37	1.4	20	.8	2242	85.6	84	2703
1986-87	106	4.1	153	6.0	49	1.9	60	2.3	14	.5	2178	85.1	69	2629
1987-88	132	5.2	139	5.5	60	2.4	79	3.1	18	.7	2102	83.1	191	2721

Graduates by Citizenship

YEAR	U.S.		FOREIGN		UNKNOWN	TOTAL
1974-75	1989	87.9%	273	12.1%	0	2262
1975-76	2535	87.5	362	12.5	0	2897
1976-77	2479	89.4	295	10.6	0	2774
1977-78	2459	87.4	354	12.6	0	2813
1978-79	2623	89.9	294	10.1	0	2917
1979-80	2923	87.9	403	12.1	0	3326
1980-81	2762	87.2	406	12.8	0	3168
1981-82	2720	85.1	476	14.9	0	3196
1982-83	2969	85.0	523	15.0	0	3492
1983-84	2652	81.6	597	18.4	50	3299
1984-85	2536	83.9	485	16.1	26	3047
1985-86	2703	83.0	553	17.0	12	3268
1986-87	2629	82.4	562	17.6	0	3191
1987-88	2721	79.0	725	21.0	1	3447

U.S. SCHOOLS OF PUBLIC HEALTH
CHARACTERISTICS OF GRADUATES (Continued)

Graduates by Degree Awarded

YEAR	BACHELOR		MPH		MS		MSPH		MHA/ MHSA		OTHER MASTERS		DrPH	
1974-75	39	1.7%	1497	66.2%	N/A	N/A	148	6.5%	N/A	N/A	388 /1	17.2%	69	3.1%
1975-76	133	4.6	1803	62.2	243	8.4%	188	6.5	147	5.1%	151	5.2	90	3.1
1976-77	85	3.1	1681	60.6	274	9.9	96	3.5	156	5.6	246	8.9	82	3.0
1977-78	71	2.5	1851	65.8	251	8.9	152	5.4	91	3.2	134	4.8	69	2.5
1978-79	69	2.4	1829	62.7	322	11.0	158	5.4	115	3.9	135	4.6	84	2.9
1979-80	65	2.0	2076	62.4	374	11.2	212	6.4	161	4.8	129	3.9	76	2.3
1980-81	126	4.0	1918	60.5	307	9.7	211	6.7	133	4.2	170	5.4	80	2.5
1981-82	N/A	N/A	2089	65.4	326	10.2	184	5.8	143	4.5	131	4.1	113	3.5
1982-83	N/A	N/A	2235	64.0	372	10.7	176	5.0	200	5.7	130	3.7	89	2.5
1983-84	N/A	N/A	1997	60.5	298	9.0	241	7.3	183	5.5	142	4.3	77	2.3
1984-85	N/A	N/A	1967	64.6	266	8.7	161	5.3	165	5.4	109	3.6	80	2.6
1985-86	N/A	N/A	2115	64.7	339	10.4	117	3.6	171	5.2	100	3.1	107	3.3
1986-87	N/A	N/A	2106	66.0	328	10.3	109	3.4	171	5.4	97	3.0	96	3.0
1987-88	N/A	N/A	2252	65.3	316	9.2	113	3.3	191	5.5	115	3.3	106	3.1

YEAR	ScD		PhD		OTHER DOCTORATE		JOINT MD DEGREE		OTHER JOINT DEGREE		TOTAL
1974-75	32	1.4%	76	3.4%	13	.6%	N/A	N/A	N/A	N/A	2262
1975-76	35	1.2	94	3.2	13	.4	N/A	N/A	N/A	N/A	2897
1976-77	37	1.3	88	3.2	0	.0	29	1.0%	N/A	N/A	2774
1977-78	55	2.0	102	3.6	11	.4	26	.9	N/A	N/A	2813
1978-79	43	1.5	125	4.3	13	.4	24	.8	N/A	N/A	2917
1979-80	55	1.7	141	4.2	17	.5	20	.6	N/A	N/A	3326
1980-81	53	1.7	140	4.4	9	.3	21	.7	N/A	N/A	3168
1981-82	40	1.3	138	4.3	15	.5	17	.5	N/A	N/A	3196
1982-83	46	1.3	154	4.4	17	.5	24	.7	49	1.4%	3492
1983-84	47	1.4	214	6.5	15	.5	21	.6	64	1.9	3299
1984-85	54	1.8	156	5.1	13	.4	20	.7	56	1.8	3047
1985-86	47	1.4	182	5.6	10	.3	27	.8	53	1.6	3268
1986-87	35	1.1	156	4.9	6	.2	29	.9	58	1.8	3191
1987-88	53	1.5	240	7.0	12	.3	19 /2	.6	30 /2	.9	3447

/1 Includes MS, MHA/MSHA and Other Masters.
/2 Columbia did not report joint degrees awarded for 1987-88.

U.S. SCHOOLS OF PUBLIC HEALTH
CHARACTERISTICS OF GRADUATES (Continued)

Graduates by Area of Specialization /1

YEAR	BIOSTAT		EPID		HSA		PHP&PM		H.EDUC/BS		ENV.SC	
1974-75	128.0	6.3 %	207.0	10.2 %	637.0	31.3 %	259.0	12.7 %	100.0	4.9 %	257.0	12.6 %
1975-76	141.0	4.9	266.0	9.2	932.0	32.2	400.0	13.8	221.0	7.6	364.0	12.6
1976-77	148.0	5.3	291.0	10.5	812.0	29.3	312.0	11.2	181.0	6.5	373.0	13.4
1977-78	159.0	5.7	313.0	11.1	737.0	26.2	310.0	11.0	182.0	6.5	421.0	15.0
1978-79	135.0	4.6	354.0	12.1	760.0	26.1	298.0	10.2	176.0	6.0	444.0	15.2
1979-80	138.0	4.1	265.0	8.0	864.0	26.0	384.0	11.5	291.0	8.7	395.0	11.9
1980-81	141.0	4.5	281.0	8.9	736.0	23.2	263.0	8.3	264.0	8.3	375.0	11.8
1981-82	157.0	4.9	349.5	11.0	832.5	26.1	346.5	10.9	222.0	7.0	344.5	10.8
1982-83	148.5	4.3	392.5	11.2	962.0	27.5	362.0	10.4	233.0	6.7	420.5	12.0
1983-84	132.5	4.0	423.0	12.8	906.0	27.5	286.0	8.7	230.0	7.0	428.5	13.0
1984-85	135.0	4.4	380.0	12.5	867.0	28.5	282.0	9.3	275.0	9.0	353.0	11.6
1985-86	118.0	3.6	450.0	13.8	933.0	28.5	281.0	8.6	284.5	8.7	388.5	11.9
1986-87	129.0	4.0	440.0	13.8	876.5	27.5	304.0	9.5	255.0	8.0	347.0	10.9
1987-88	168.0	4.9	517.5	15.0	927.5	26.9	268.0	7.8	269.5	7.8	377.5	11.0

YEAR	OS&H		NUTR		BIOMED		OTHER		NONSPEC		UNKNOWN	TOTAL
1974-75	26.0	1.3 %	120.0	5.9 %	32.0	1.6 %	259.0	12.7 %	13.0	.6 %	224	2262
1975-76	43.0	1.5	145.0	5.0	74.0	2.6	226.0	7.8	85.0	2.9	0	2897
1976-77	22.0	.8	131.0	4.7	61.0	2.2	443.0	16.0	N/A	N/A	0	2774
1977-78	19.0	.7	140.0	5.0	88.0	3.1	444.0	15.8	N/A	N/A	0	2813
1978-79	22.0	.8	164.0	5.6	88.0	3.0	476.0	16.3	N/A	N/A	0	2917
1979-80	92.0	2.8	167.0	5.0	124.0	3.7	511.0	15.4	95.0	2.9	0	3326
1980-81	114.0	3.6	209.0	6.6	98.0	3.1	500.0	15.8	187.0	5.9	0	3168
1981-82	146.5	4.6	204.5	6.4	92.0	2.9	302.0	9.5	194.0	6.1	5	3196
1982-83	95.5	2.7	158.5	4.5	72.0	2.1	290.5	8.3	357.0	10.2	0	3492
1983-84	60.0	1.8	120.5	3.7	90.0	2.7	402.5	12.2	220.0	6.7	0	3299
1984-85	83.5	2.7	119.5	3.9	74.0	2.4	295.0	9.7	183.0	6.0	0	3047
1985-86	78.0	2.4	111.0	3.4	104.0	3.2	304.0	9.3	216.0	6.6	0	3268
1986-87	88.0	2.8	110.5	3.5	79.0	2.5	340.0	10.7	222.0	7.0	0	3191
1987-88	76.5	2.2	128.0	3.7	69.0	2.0	389.5	11.3	256.0	7.4	0	3447

/1 Graduates with dual majors counted as .5 in each area beginning in 1981-82.

U.S. SCHOOLS OF PUBLIC HEALTH
CHARACTERISTICS OF GRADUATES (Continued)

Graduates by Highest Previous Degree

YEAR	BACHELOR		NURSING DEGREE /1		MASTERS		MD/DO		DDS	
1981-82	1339	63.3 %	N/A	N/A	289	13.7 %	378	17.9 %	34	1.6 %
1982-83	1576	59.2	185	7.0 %	330	12.4	430	16.2	54	2.0
1983-84	1713	57.8	214	7.2	402	13.6	480	16.2	51	1.7
1984-85	1650	55.6	219	7.4	371	12.5	479	16.2	33	1.1
1985-86	1817	57.9	223	7.1	392	12.5	541	17.2	36	1.1
1986-87	1642	52.7	325	10.4	351	11.3	631	20.3	51	1.6
1987-88	1569	50.0	287	9.1	405	12.9	700	22.3	62	2.0

YEAR	DVM		PhD		OTHER DOCT.		OTHER DEGREE		UNKNOWN	TOTAL
1981-82	6	.3 %	41	1.9 %	24	1.1 %	3	.1 %	1082	3196
1982-83	15	.6	34	1.3	16	.6	20	.8	832	3492
1983-84	14	.5	46	1.6	28	.9	16	.5	335	3299
1984-85	15	.5	31	1.0	42	1.4	125	4.2	82	3047
1985-86	19	.6	36	1.1	22	.7	53	1.7	129	3268
1986-87	29	.9	48	1.5	15	.5	22	.7	77	3191
1987-88	27	.9	44	1.4	7	.2	37	1.2	309	3447

/1 Nursing degree category includes nursing degrees at all levels -- bachelor, master or doctoral.

U.S. SCHOOLS OF PUBLIC HEALTH
GRADUATES BY SCHOOL BY MASTERS/DOCTORAL DEGREES

SCHOOL	1974/75	1975/76	1976/77	1977/78	1978/79	1979/80	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88
ALA	*	*	*	1/0	13/0	12/0	20/0	30/0	55/2	43/1	44/0	99/2	99/4	119/2
BOSTON	*	*	*	*	*	*	*	75/0	87/0	92/0	107/0	101/0	98/1	117/0
CAL-BERK	201/19	245/15	233/26	255/19	203/14	214/11	229/20	184/18	204/18	204/30	175/20	219/19	185/29	173/20
CAL-UCLA	151/12	190/26	171/13	171/14	212/26	186/14	201/16	185/24	182/16	190/36	172/17	169/27	153/24	180/31
COLUMBIA	62/5	88/6	89/9	102/8	105/6	153/12	* *	137/11	149/7.	185/9	190/11	183/10	156/9	178/15
HARVARD	147/11	186/16	177/14	196/28	217/32	232/34	216/39	200/26	209/21	180/22	201/20	193/26	208/18	173/43
HAWAII	57/0	97/0	131/0	143/0	152/1	160/0	158/1	149/3	176/4	116/4	104/3	72/4	106/9	91/9
ILL	62/0	89/0	79/0	79/1	67/0	59/1	82/5	78/4	86/11	66/9	70/7	57/7	90/2	95/2
JHU	175/34	159/44	191/36	177/48	213/40	180/68	240/48	220/43	211/49	247/68	208/73	234/60	241/47	226/83
L.LINDA	90/13	93/13	107/10	130/11	101/13	180/18	148/9	134/15	162/14	242/6	116/7	136/7	92/5	99/5
MASS	27/0	53/0	24/0	27/0	35/0	47/0	41/0	42/0	57/0	29/0	31/1	30/1	37/0	43/1
MICH	335/6	386/16	303/19	241/16	254/34	300/25	266/21	285/18	356/20	209/27	224/15	214/27	212/23	213/46
MINN	101/5	144/6	154/3	193/4	166/10	215/9	161/11	205/4	249/7	191/8	166/4	199/14	207/5	162/10
No.CAR	199/29	205/28	205/22	221/35	228/30	236/35	224/33	229/46	230/45	254/50	237/41	229/32	250/38	222/45
OKLA	43/21	53/9	55/12	38/11	40/12	34/12	47/14	35/14	39/14	37/10	49/8	80/7	63/4	67/5
PITT	89/6	143/9	127/12	112/11	116/7	155/15	135/18	111/24	122/19	108/14	98/20	97/22	90/22	121/28
PR	* *	88/0	54/0	* *	64/0	89/0	58/0	47/0	48/0	57/0	52/0	58/0	61/0	114/0
S.DIEGO	*	*	*	*	*	*	*	10/0	39/0	30/0	48/0	49/0	50/0	66/0
So.CAR	*	*	30/0	38/0	24/0	52/0	45/0	70/0	41/3	52/1	37/3	57/6	53/4	64/5
So.FLA	*	*	*	*	*	*	*	*	*	*	*	*	28/0	50/0
TEXAS	78/22	86/29	85/19	90/16	93/17	126/14	143/23	149/38	131/25	82/27	74/26	84/44	110/23	106/32
TULANE	94/4	119/8	120/4	150/3	140/6	161/7	178/4	136/7	172/13	164/5	166/12	179/13	144/7	181/9
WASH	31/0	39/3	61/0	56/5	56/8	71/9	67/14	85/6	85/10	69/12	85/10	81/9	82/11	88/11
YALE	91/3	69/4	86/8	85/7	84/9	110/5	101/6	94/5	96/8	98/15	90/5	102/9	83/8	88/9
TOTAL	2033/190 2223	2532/232 2764	2482/207 2689	2505/237 2742	2583/265 2848	2972/289 3261	2760/282 3042	2890/306 3196	3186/306 3492	2945/354 3299	2744/303 3047	2922/346 3268	2898/293 3191	3036/411 3447

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* Indicates school not yet in operation.

* * Indicates missing data.

V. EXPENDITURES 1987-88

Expenditures represent the monies spent by the school of public health during the fiscal year. Expenditures do not represent the total amount budgeted for the schools nor the total monies that are available under the school's grants and contracts.

Expenditures for the 24 schools totaled $428 million for FY 1987-88, almost a 17% increase over FY 1986-87. Of the total funds expended, nearly half (46%) were from institutional sources, 40% were from federal sources, and 14% were from other sources. Since the 1974-75 fiscal year, expenditures at the schools of public health have increased by 250%.

In FY 1974-75, institutional sources accounted for only 36% of expenditures, federal sources 55%, and other sources 9%. Over the next 10 years, there was a shift toward more reliance on institutional funds and less reliance on federal monies. In the past three fiscal years, however, the proportion of expenditures that have come from institutional funds has decreased, while the proportion of expenditures from federal and other sources has increased.

TABLE 5-1
U.S. SCHOOLS OF PUBLIC HEALTH
EXPENDITURES 1987-88

UNIVERSITY FUNDS

SCHOOL	SALARY	FRINGE	TOTAL SALARY AND FRINGE	STUDENT AID	NON-PERSONNEL EXPENSES	INDIRECT EXPENSES	TOTAL UNIVERSITY
25	9634170	1625482	11259652	0	2402403	6242006	19904061
26	9492773	2124116	11616889	3171953	5794662	4268684	24852188
27	6886005	1404745	8290750	634575	572070	6645672	16143067
28	5123084	1088382	6211466	20195	865725	1670910	8768296
29	2171633	577335	2748968	179818	486587	3738717	7154090
30	3200300	379300	3579600	0	376900	1309500	5266000
31	5124307	1108936	6233243	0	862298	2100499	9196040
32	7640065	1494466	9134531	977266	3911468	5504445	19527710
33	3356818	784020	4140838	0	1070009	5635139	10845986
34	1375025	508759	1883784	0	267036	499499	2650319
35	2180287	436331	2616618	117721	1451657	1129544	5315540
36	1212878	234216	1447094	0	143570	506560	2097224
37	1395040	404705	1799745	54278	1091688	967533	3913244
38	1517920	379480	1897400	43641	67079	1571022	3579142
39	3307099	836642	4143741	94479	936677	4654666	9829563
40	1722640	482339	2204979	0	106108	992241	3303328
41	6508090	1049801	7557891	0	1129510	4278896	12966297
42	3321545	697524	4019069	40000	2516219	1547342	8122630
43	1988800	435000	2423800	200110	714400	3385650	6723960
44	1497237	256152	1753389	136519	259471	198204	2347583
45	2260523	490380	2750903	148603	917301	665174	4481981
46	1936785	259529	2196314	98984	673011	2616080	5584389
47	795300	234195	1029495	0	24141	0	1053636
48	1818532	371579	2190111	84832	638590	95708	3009241
TOTAL	85466856	17663414	103130270	6002974	27278580	60223691	196635515

TABLE 5-2
U.S. SCHOOLS OF PUBLIC HEALTH
EXPENDITURES 1987-88

GRANTS & CONTRACTS/TOTAL EXPENDITURES

	U.S. GOVERNMENT				OTHER SOURCES					
SCHOOL	RESEARCH GRANTS	TRAINING GRANTS	STUDENT AID	SUB-TOTAL	RESEARCH GRANTS	TRAINING GRANTS	STUDENT AID	SUB-TOTAL	TOTAL GRANTS	TOTAL EXPEND.
25	7053545	2087948	904646	10046139	2729807	372453	43032	3145292	13191431	33095492
26	40885532	1377989	3979437	46242958	11610118	2410447	1686163	15706728	61949686	86801874
27	3766673	607609	853051	5227333	2859746	839450	264753	3963949	9191282	25334349
28	3744389	32410	512822	4289621	1402037	55714	95170	1552921	5842542	14610838
29	6918574	854384	590302	8363260	3627260	208779	18337	3854376	12217636	19371726
30	2709400	484200	120100	3313700	1286000	831000	9700	2126700	5440400	10706400
31	3033875	1476180	0	4510055	677226	159729	0	836955	5347010	14543050
32	16417971	1548249	2343273	20309493	8033521	17791	734457	8785769	29095262	48622972
33	15480762	1485872	296359	17262993	2115498	284783	0	2400281	19663274	30509260
34	569761	1038491	189351	1797603	0	0	0	0	1797603	4447922
35	4812359 [1]	352237	0	5164596	420344 [1]	155628	0	575972	5740568	11056108
36	250542	252684	80651	583877	17413	36072	0	53485	637362	2734586
37	79000	82709	552734	714443	0	0	38860	38860	753303	4666547
38	494143	136287	0	630430	3774941	0	0	3774941	4405371	7984513
39	8293542	847808	62381	9203731	2933487	427185	9099	3369771	12573502	22403065
40	1217103	577349	160654	1955106	6653	231281	4775	242709	2197815	5501143
41	3937198	506893	0 [2]	4444091	1545463	572903	0 [2]	2118366	6562457	19528754
42	6448437	1811170	417078	8676685	3202930	142006	0	3344936	12021621	20144251
43	6209645	729665	86690	7026000	960000	0	37092	997092	8023092	14747052
44	1604119	0	199304	1803423	0	0	0	23976 [3]	1827399	4174982
45	1929163	402603	267211	2598977	874947	905393	51905	1832245	4431222	8913203
46	2937130	127142	94283	3158555	776981	1191036	3760	1971777	5130332	10714721
47	711405	152786	106273	970464	297771	0	0	297771	1268235	2321871
48	680714	0	220229	901013	1198243	7500	26700	1232443	2133456	5142697
TOTAL	140184982	16972665	12036829	169194546	50350386	8849150	3023803	62247315 [3]	231441861	428077376

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[1] Includes multi-purpose funds.

[2] Student aid included in training grants.

[3] Educational foundation miscellaneous funds. Included in sub-total.

TABLE 5-3
U.S. SCHOOLS OF PUBLIC HEALTH
EXPENDITURES

FY	INSTITUTIONAL SOURCES		FEDERAL SOURCES		OTHER SOURCES		TOTAL EXPENDITURES
1974-75	$43,613,028	35.7	$67,130,975	54.9	$11,521,854	9.4	$122,265,857
1976-77	54,456,054	38.0	73,281,169	51.1	15,554,536	10.9	143,291,759
1977-78	63,821,421	39.8	79,581,169	49.6	16,969,924	10.6	160,372,514
1979-80	82,227,292	40.6	95,920,799	47.4	24,330,800	12.0	202,478,891
1980-81	91,696,770	41.6	105,123,883	47.7	23,580,608	10.7	220,401,261
1981-82	109,925,409	45.9	101,734,232	42.4	28,091,885	11.7	239,751,526
1982-83	112,532,050	48.9	90,662,549	39.4	27,080,347	11.8	230,274,946
1983-84	112,476,638	48.9	84,707,805	36.8	32,730,286	14.2	229,914,729
1984-85	148,485,900	51.8	105,897,277	36.9	32,253,444	11.3	286,636,621
1985-86	161,011,821	50.1	121,036,930	37.7	39,042,085	12.2	321,090,836
1986-87	174,779,516	47.7	142,369,309	38.8	49,361,045	13.5	366,509,870
1987-88	196,635,515	45.9	169,194,546	39.5	62,247,315	14.5	428,077,376

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[1] One school did not report. In 1982-83, a small school was not included, and total expenditures were not greatly affected. However, in 1983-84, one of the largest schools was not included, and expenditures were significantly under reported.